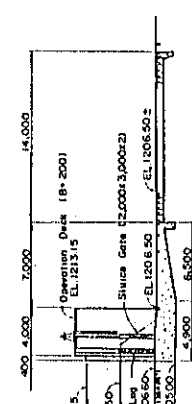
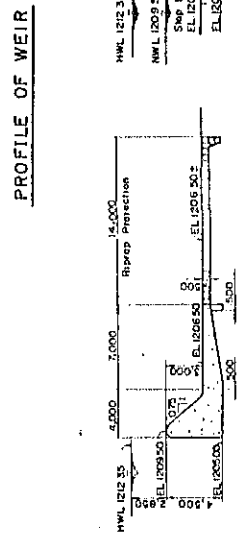
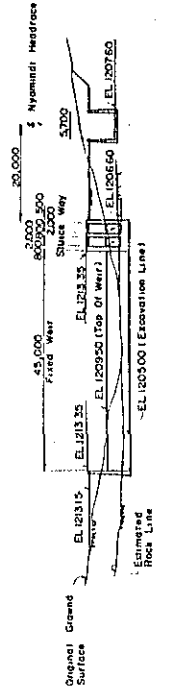
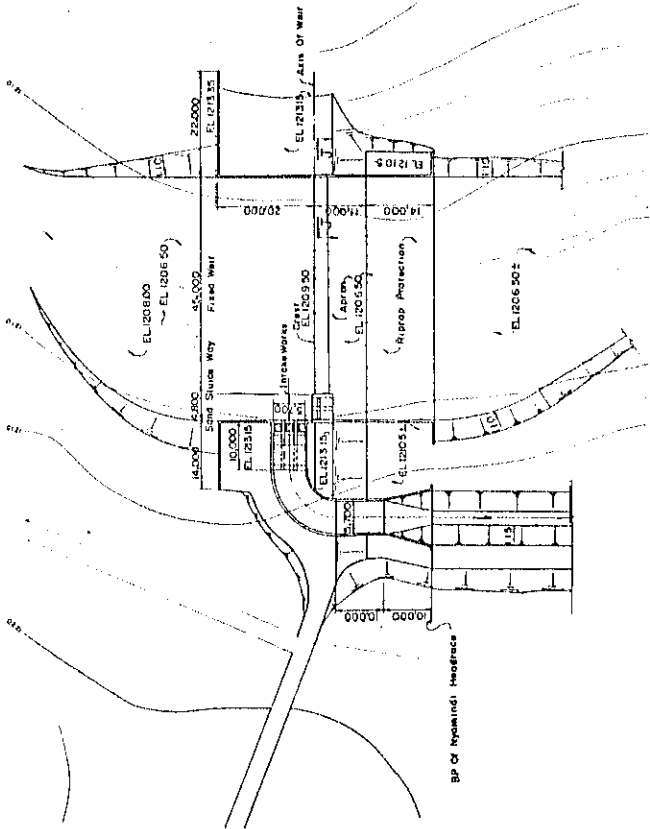


BASIC DESIGN DRAWINGS

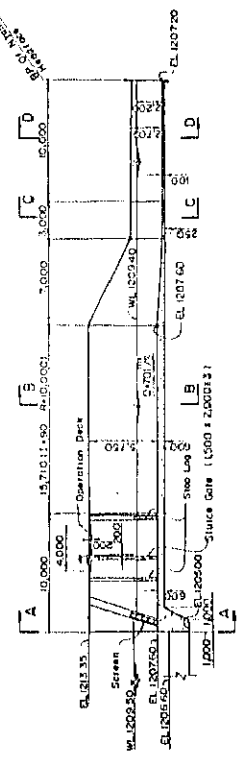
LIST OF DRAWINGS

PLATE NO.	DWG. NO.	TITLE
1	101	NYAMINDI HEADWORKS
2	102	THIBA HEADWORKS
3	201	PROFILE OF NYAMINDI HEADRACE & NEW NYAMINDI MAIN CANAL
4	202	PROFILE OF LINK CANAL-I (1/3)
5	203	PROFILE OF LINK CANAL-I (2/3)
6	204	PROFILE OF LINK CANAL-I (3/3)
7	205	PROFILE OF NYAMINDI MAIN CANAL (1/2)
8	206	PROFILE OF NYAMINDI MAIN CANAL (2/2)
9	207	PROFILE OF LINK CANAL-II
10	208	PROFILE OF THIBA MAIN CANAL (1/3)
11	209	PROFILE OF THIBA MAIN CANAL (2/3)
12	210	PROFILE OF THIBA MAIN CANAL (3/3)
13	211	PROFILE OF THIBA BRANCH CNAL (1/5)
14	212	PROFILE OF THIBA BRANCH CNAL (2/5)
15	213	PROFILE OF THIBA BRANCH CNAL (3/5)
16	214	PROFILE OF THIBA BRANCH CNAL (4/5)
17	215	PROFILE OF THIBA BRANCH CNAL (5/5)
18	301	DIVERSION STRUCTURE
19	302	SYPHON (IN LINK CANAL-I)
20	303	OFFTAKE (TYPE-A&B)
21	304	CHECK (TYPE-A)
22	305	CHECK (TYPE-B)
23	306	CHECK (TYPE-C&D)
24	307	DROP (TYPE-A&B)
25	308	CULVERT (TYPE-A&B)
26	309	BROAD CRESTED WEIR & RECTANGULAR SHARP-CRESTED WEIR
27	310	WASHING STEP & STEP
28	311	CATTLE BASIN
29	312	FOOT BRIDGE

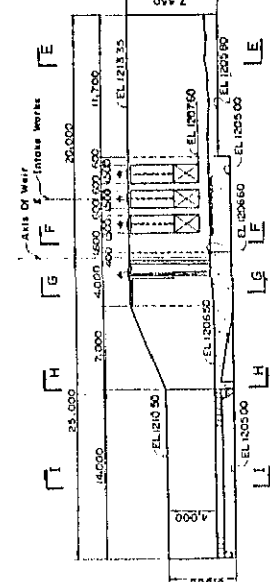
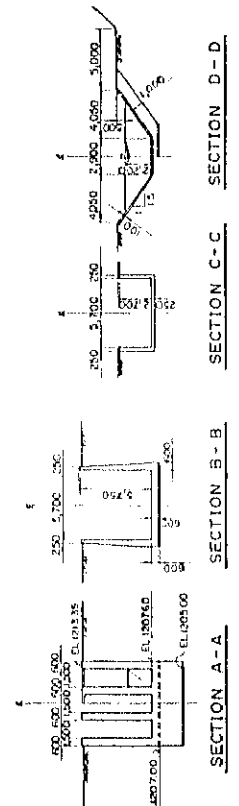
PLATE NO.	DWG. NO.	TITLE
30	313	SPILLWAY (TYPE-A)
31	314	SPILLWAY (TYPE-B&C)
32	315	SYPHON (IN THIBA BRANCH CANAL-IV)
33	316	RE-USE STRUCTURE & MISCELLANIOUS WORKS
34	317	ON-FARM FACILITIES (IN PILOT FARM)
35	318	AQUEDUCT (IN PILOT FARM)
36	401	DRAINAGE CULVERT (TYPEE-A&B)
37	402	DRAINAGE SYPHON
38	403	DRAINAGE INLET & DRAINAGE JUNCTION
39	501	LAYOUT OF PILOT FARM
40	502	PROFILE OF MAIN FEEDER CANAL
41	503	PROFILE OF BRANCH FEEDER CANAL NO. 1
42	504	PROFILE OF BRANCH FEEDER CANAL NO. 2 AND NO. 3
43	505	PROFILE OF CATCH DRAIN NO. 1 (1/2)
44	506	PROFILE OF CATCH DRAIN NO. 1 (2/2)
45	507	PROFILE OF CATCH DRAIN NO. 2
46	508	PROFILE OF CATCH DRAIN NO. 3 AND NO. 4
47	509	PROFILE OF MAIN COLLECTOR DRAIN NO. 1
48	510	PROFILE OF MAIN COLLECTOR DRAIN NO. 2
49	511	PROFILE OF COLLECTOR DRAIN NO. 1
50	512	PROFILE OF COLLECTOR DRAIN NO.2 AND NO.3
51	601	PILOT FARM - SITE PLAN
52	602	OFFICE/TRAINING/LABORATORY - PLAN
53	603	OFFICE/TRAINING/LABORATORY - ELEVATION/SECTION
54	604	MULTIPURPOSE STORAGE/WORKSHOP - PLAN/ELEVATION/SECTION
55	605	HOOUSING/GUARD HOUSE - PLAN/ELEVATION/SECTION
56	606	GUEST HOUSE - PLAN/ELEVATION/SECTION
57	607	MACHINE CENTER - SITE PLAN/PLAN/ELEVATION/SECTION



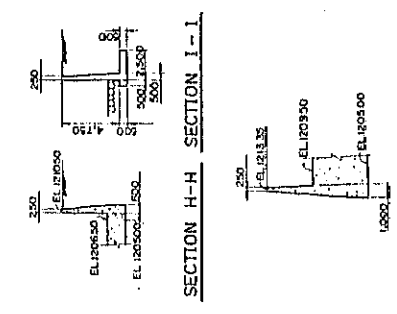
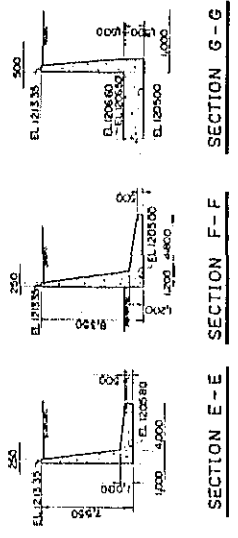
PLAN OF NEW NYAMINDI HEADWORKS



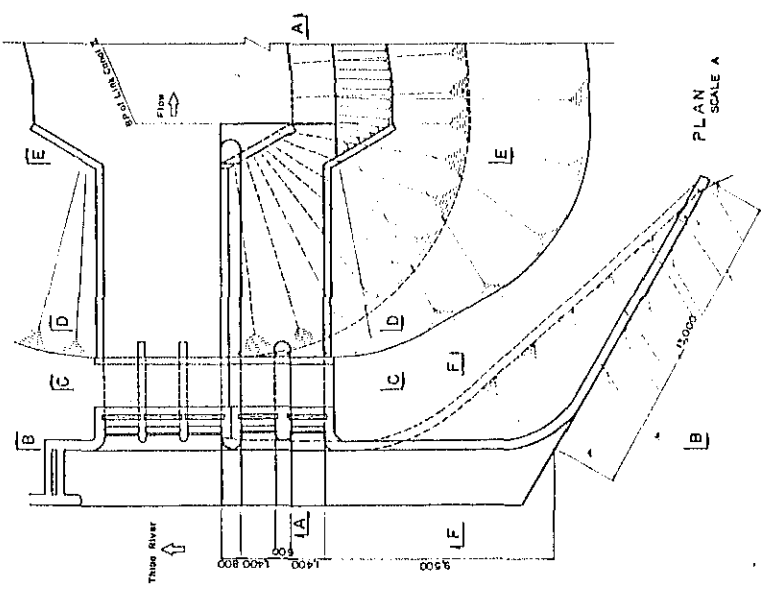
PROFILE OF INTAKE WORKS



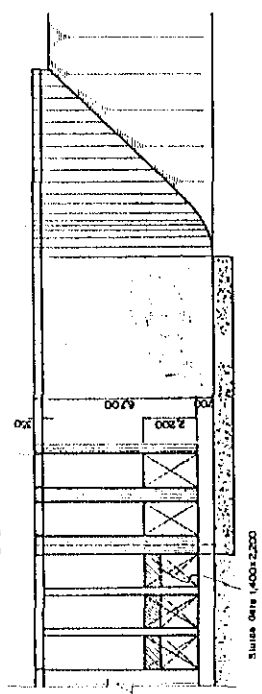
PROFILE OF INTAKE SIDE WALL



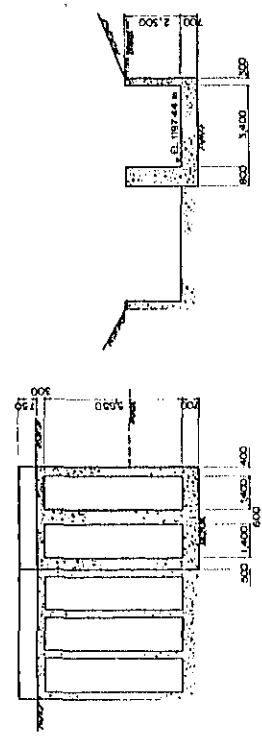
REPUBLIC OF KENYA	JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN
NATIONAL IRRIGATION BOARD	
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	DWA. NO. 101
TITLE OF DRAWING NYAMINDI HEADWORKS	



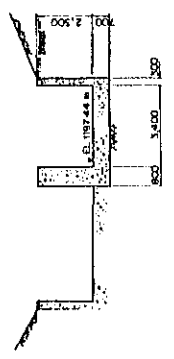
PLAN SCALE A



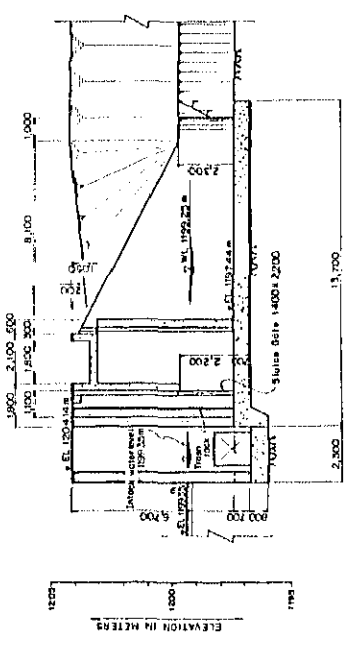
SECTION S-B SCALE A



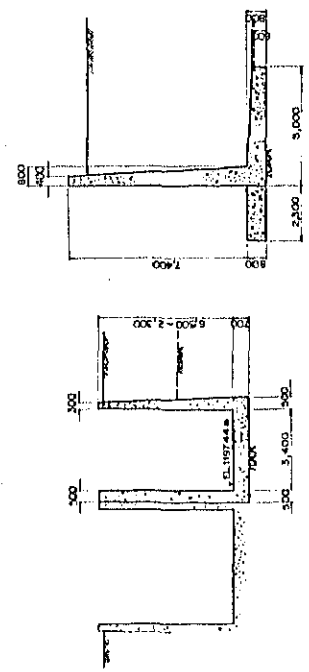
SECTION C-C SCALE A



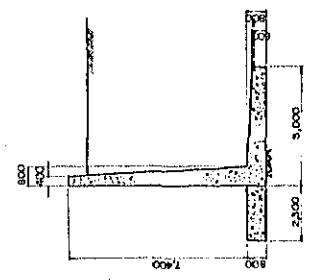
SECTION E-E SCALE A



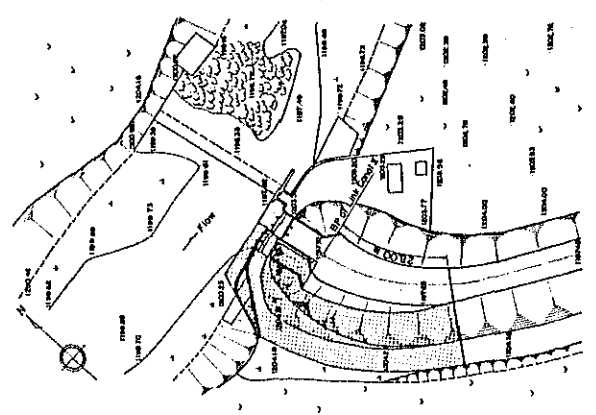
SECTION A-A SCALE A



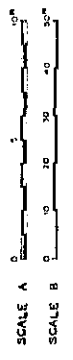
SECTION D-D SCALE A



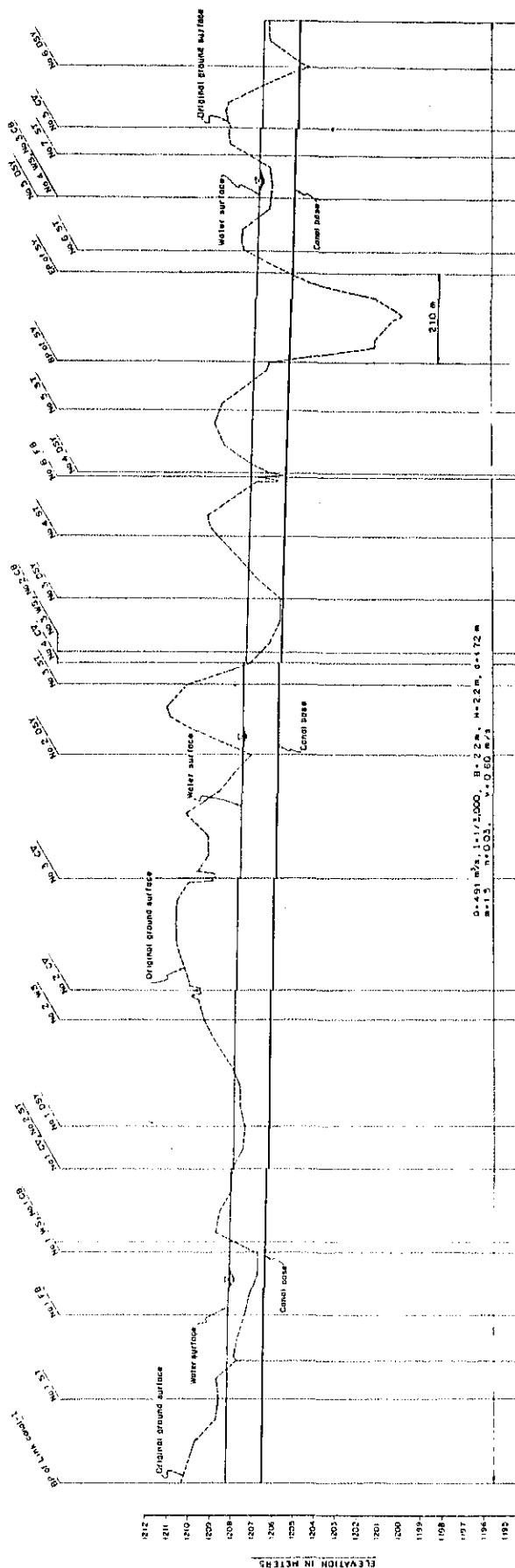
SECTION E-E SCALE A



IMPROVEMENT OF THIBA HEADWORKS SCALE B

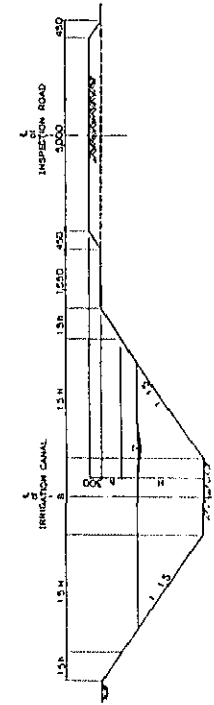


REPUBLIC OF KENYA	JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO, JAPAN
NATIONAL IRRIGATION BOARD	
MWEA IRRIGATION SETTLEMENT SCHEME	TITLE OF DRAWING THIBA HEADWORKS
DEVELOPMENT PROJECT	
DRAWING NO. 102	



$D = 4.91 \text{ m}^2$, $i = 1/1,000$, $B = 2.2 \text{ m}$, $H = 2.2 \text{ m}$, $d = 1.72 \text{ m}$
 $m = 1.5$, $n = 0.03$, $V = 0.60 \text{ m}^3/\text{s}$

STATION NO	EXISTING CONDITION		PROPOSED CONDITION	
	ELEVATION	CURVE	ELEVATION	CURVE
1192	1208.50		1208.50	
1193	1208.50		1208.50	
1194	1208.50		1208.50	
1195	1208.50		1208.50	
1196	1208.50		1208.50	
1197	1208.50		1208.50	
1198	1208.50		1208.50	
1199	1208.50		1208.50	
1200	1208.50		1208.50	
1201	1208.50		1208.50	
1202	1208.50		1208.50	
1203	1208.50		1208.50	
1204	1208.50		1208.50	
1205	1208.50		1208.50	
1206	1208.50		1208.50	
1207	1208.50		1208.50	
1208	1208.50		1208.50	
1209	1208.50		1208.50	
1210	1208.50		1208.50	
1211	1208.50		1208.50	
1212	1208.50		1208.50	
1213	1208.50		1208.50	
1214	1208.50		1208.50	
1215	1208.50		1208.50	



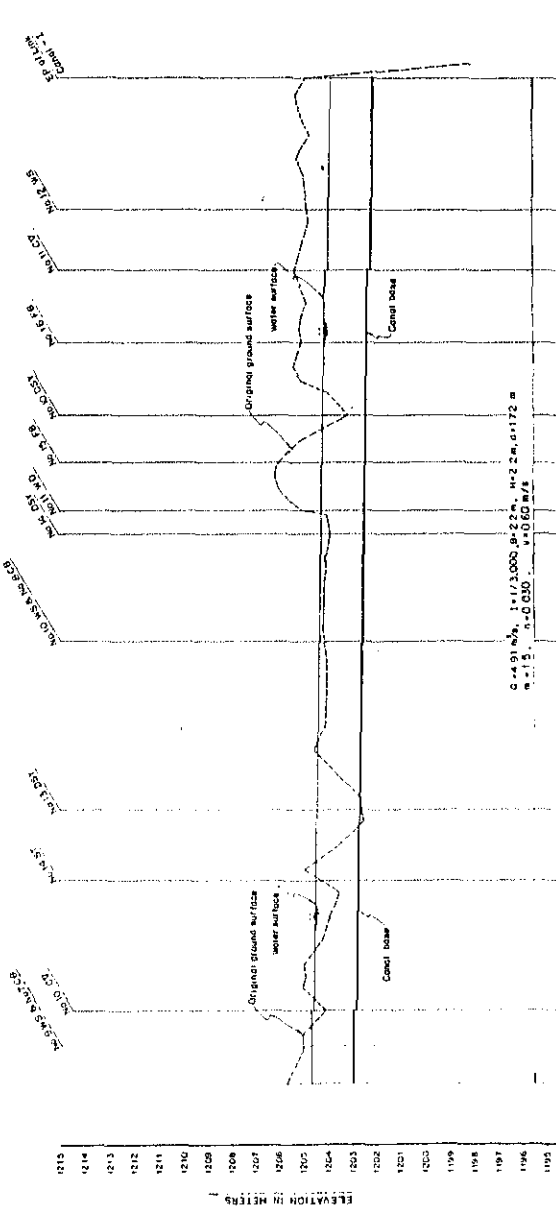
TYPICAL CROSS SECTION OF EARTH CANAL



- NOTE
- EX - Existing structure uncertainty
 - RE - for reconstruction
 - NE - new structure to be reconstructed
 - DE - Existing structure to be demolished
 - TO - Turnout
 - DI - Ditch
 - CS - Cattle drain
 - CO - Culvert
 - DR - Drain
 - SB - Submersible bridge
 - CB - Culvert
 - ST - Siphon
 - AW - Aqueduct
 - AS - Aqueduct
 - AW - Aqueduct
 - ST - Siphon
 - DI - Ditch (net)
 - WB - Weaving stop
 - CB - Cattle drain
 - CO - Culvert
 - DR - Drain
 - SB - Submersible bridge
 - CB - Culvert
 - ST - Siphon
 - AW - Aqueduct
 - AS - Aqueduct
 - AW - Aqueduct
 - ST - Siphon
 - DI - Ditch (net)

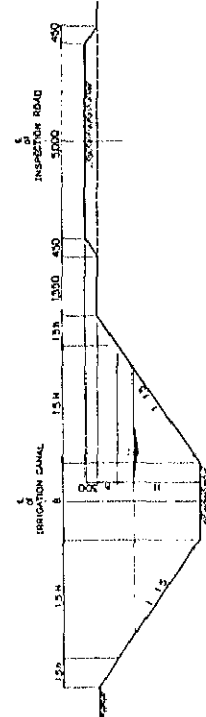
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF LINK CANAL (G/3)

JAPAN INTERNATIONAL COOPERATION AGENCY
 TC/NO JAPAN
 DWG. NO.
 204



STATION NO	PROPOSED CONDITION		EXISTING CONDITION	
	BANK ELEVATION	WATER SURFACE ELEVATION	BANK ELEVATION	WATER SURFACE ELEVATION
1015	1015.00	1015.00	1015.00	1015.00
1016	1016.00	1016.00	1016.00	1016.00
1017	1017.00	1017.00	1017.00	1017.00
1018	1018.00	1018.00	1018.00	1018.00
1019	1019.00	1019.00	1019.00	1019.00
1020	1020.00	1020.00	1020.00	1020.00
1021	1021.00	1021.00	1021.00	1021.00
1022	1022.00	1022.00	1022.00	1022.00
1023	1023.00	1023.00	1023.00	1023.00
1024	1024.00	1024.00	1024.00	1024.00
1025	1025.00	1025.00	1025.00	1025.00
1026	1026.00	1026.00	1026.00	1026.00
1027	1027.00	1027.00	1027.00	1027.00
1028	1028.00	1028.00	1028.00	1028.00
1029	1029.00	1029.00	1029.00	1029.00
1030	1030.00	1030.00	1030.00	1030.00
1031	1031.00	1031.00	1031.00	1031.00
1032	1032.00	1032.00	1032.00	1032.00
1033	1033.00	1033.00	1033.00	1033.00
1034	1034.00	1034.00	1034.00	1034.00
1035	1035.00	1035.00	1035.00	1035.00
1036	1036.00	1036.00	1036.00	1036.00
1037	1037.00	1037.00	1037.00	1037.00
1038	1038.00	1038.00	1038.00	1038.00
1039	1039.00	1039.00	1039.00	1039.00
1040	1040.00	1040.00	1040.00	1040.00
1041	1041.00	1041.00	1041.00	1041.00
1042	1042.00	1042.00	1042.00	1042.00
1043	1043.00	1043.00	1043.00	1043.00
1044	1044.00	1044.00	1044.00	1044.00
1045	1045.00	1045.00	1045.00	1045.00
1046	1046.00	1046.00	1046.00	1046.00
1047	1047.00	1047.00	1047.00	1047.00
1048	1048.00	1048.00	1048.00	1048.00
1049	1049.00	1049.00	1049.00	1049.00
1050	1050.00	1050.00	1050.00	1050.00
1051	1051.00	1051.00	1051.00	1051.00
1052	1052.00	1052.00	1052.00	1052.00
1053	1053.00	1053.00	1053.00	1053.00
1054	1054.00	1054.00	1054.00	1054.00
1055	1055.00	1055.00	1055.00	1055.00
1056	1056.00	1056.00	1056.00	1056.00
1057	1057.00	1057.00	1057.00	1057.00
1058	1058.00	1058.00	1058.00	1058.00
1059	1059.00	1059.00	1059.00	1059.00
1060	1060.00	1060.00	1060.00	1060.00
1061	1061.00	1061.00	1061.00	1061.00
1062	1062.00	1062.00	1062.00	1062.00
1063	1063.00	1063.00	1063.00	1063.00
1064	1064.00	1064.00	1064.00	1064.00
1065	1065.00	1065.00	1065.00	1065.00
1066	1066.00	1066.00	1066.00	1066.00
1067	1067.00	1067.00	1067.00	1067.00
1068	1068.00	1068.00	1068.00	1068.00
1069	1069.00	1069.00	1069.00	1069.00
1070	1070.00	1070.00	1070.00	1070.00
1071	1071.00	1071.00	1071.00	1071.00
1072	1072.00	1072.00	1072.00	1072.00
1073	1073.00	1073.00	1073.00	1073.00
1074	1074.00	1074.00	1074.00	1074.00
1075	1075.00	1075.00	1075.00	1075.00
1076	1076.00	1076.00	1076.00	1076.00
1077	1077.00	1077.00	1077.00	1077.00
1078	1078.00	1078.00	1078.00	1078.00
1079	1079.00	1079.00	1079.00	1079.00
1080	1080.00	1080.00	1080.00	1080.00
1081	1081.00	1081.00	1081.00	1081.00
1082	1082.00	1082.00	1082.00	1082.00
1083	1083.00	1083.00	1083.00	1083.00
1084	1084.00	1084.00	1084.00	1084.00
1085	1085.00	1085.00	1085.00	1085.00
1086	1086.00	1086.00	1086.00	1086.00
1087	1087.00	1087.00	1087.00	1087.00
1088	1088.00	1088.00	1088.00	1088.00
1089	1089.00	1089.00	1089.00	1089.00
1090	1090.00	1090.00	1090.00	1090.00
1091	1091.00	1091.00	1091.00	1091.00
1092	1092.00	1092.00	1092.00	1092.00
1093	1093.00	1093.00	1093.00	1093.00
1094	1094.00	1094.00	1094.00	1094.00
1095	1095.00	1095.00	1095.00	1095.00

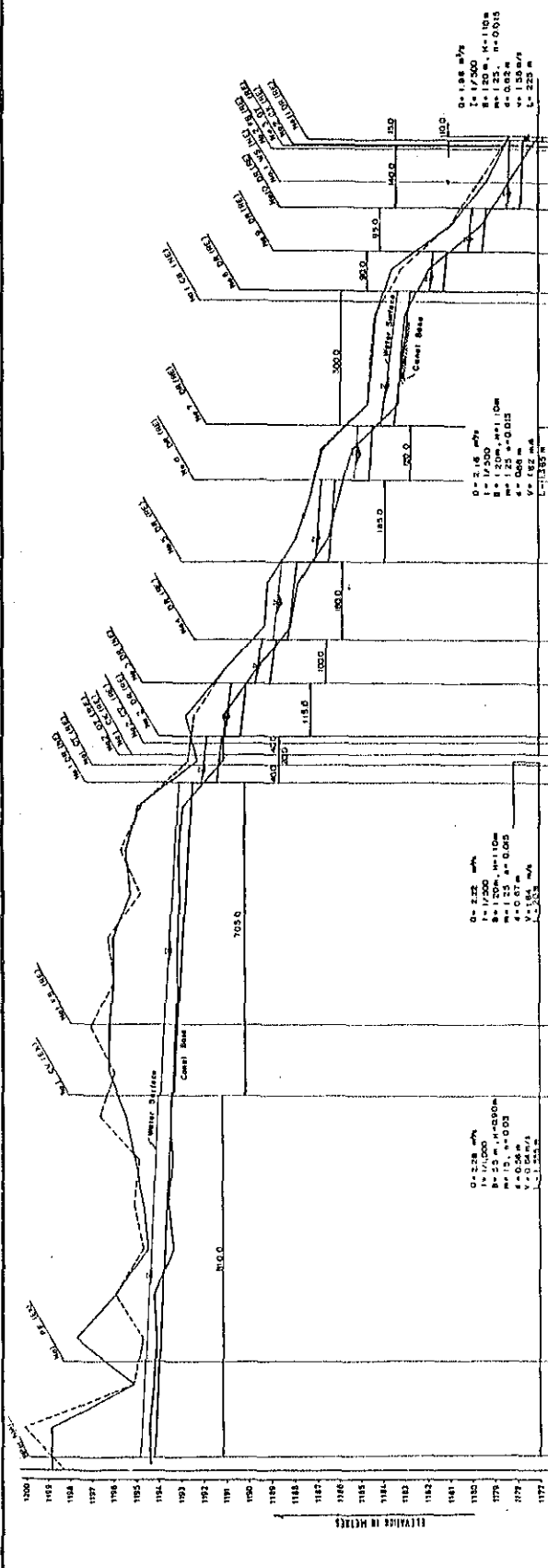
$C = 0.91 m/s^2$, $1:1$, $1:1000$, $H = 2.2m$, $H = 2.2m$, $G = 172 m$
 $n = 0.15$, $n = 0.30$



TYPICAL CROSS SECTION OF EARTH CANAL



- Note
- ES - Existing structure unnecessary for rehabilitation
 - RE - Existing structure to be rehabilitated
 - NE - New structure to be constructed
 - SE - Existing structure to be strengthened
 - TS - Temporary structure
 - BS - Bridge structure
 - AW - Aqueduct
 - 40 - Aqueduct
 - 50 - Aqueduct
 - 51 - Aqueduct
 - 52 - Aqueduct
 - 53 - Aqueduct
 - 54 - Aqueduct
 - 55 - Aqueduct
 - 56 - Aqueduct
 - 57 - Aqueduct
 - 58 - Aqueduct
 - 59 - Aqueduct
 - 60 - Aqueduct
 - 61 - Aqueduct
 - 62 - Aqueduct
 - 63 - Aqueduct
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 - 85 - Aqueduct
 - 86 - Aqueduct
 - 87 - Aqueduct
 - 88 - Aqueduct
 - 89 - Aqueduct
 - 90 - Aqueduct
 - 91 - Aqueduct
 - 92 - Aqueduct
 - 93 - Aqueduct
 - 94 - Aqueduct
 - 95 - Aqueduct
 - 96 - Aqueduct
 - 97 - Aqueduct
 - 98 - Aqueduct
 - 99 - Aqueduct
 - 100 - Aqueduct

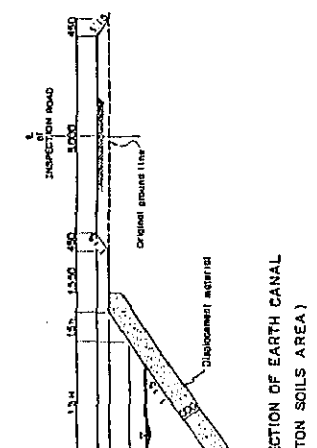


PROPOSED CONDITION	EXISTING CONDITION
RIGHT SURFACE ELEVATION	RIGHT SURFACE ELEVATION
CANAL BASE ELEVATION	CANAL BASE ELEVATION
RIGHT BANK ELEVATION	RIGHT BANK ELEVATION
LEFT BANK ELEVATION	LEFT BANK ELEVATION
CANAL BASE ELEVATION	CANAL BASE ELEVATION
DISTANCE	DISTANCE
HEIGHT	HEIGHT
STATION No.	STATION No.
CURVE	CURVE

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT

TITLE OF DRAWING
 PROFILE OF NYAMINDI MAIN CANAL (U2)

JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN

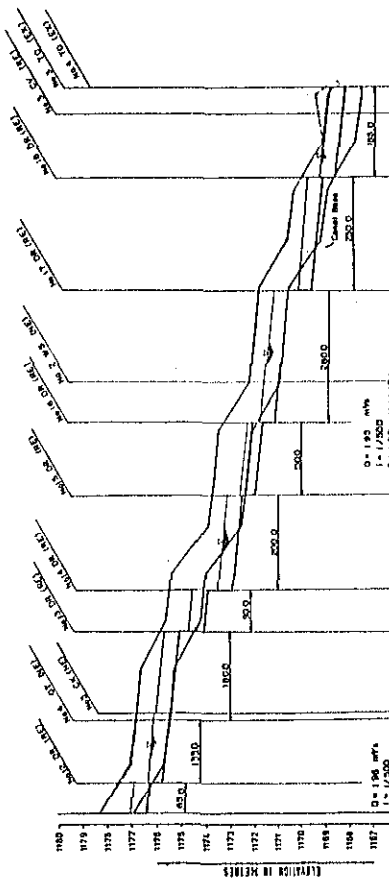


TYPICAL CROSS SECTION OF EARTH CANAL
 (BLACK COTTON SOILS AREA)

- Scale: HORIZONTAL 1:5000, VERTICAL 1:100
- WB - Working site
 - CB - Centre beam
 - FB - Foot bridge
 - DB - Drainage system
 - SB - Submerged bridge
 - WB - Weir
 - RB - Raft structure
 - AD - Aqueduct
 - ST - Step
 - SI - Storage tank

- TD - Tunnel
- OT - Outlet
- CK - Check
- DR - Drop
- CV - Culvert
- DM - Dam
- RM - Rectangular raised weir
- ST - Step
- SI - Storage tank

Note: Ex - Existing structure, unshaded
 NE - Existing structure to be reconstructed
 NE - New structure to be constructed
 DE - Existing structure to be demolished

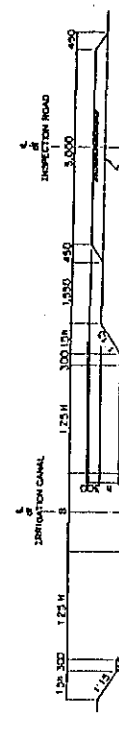


$S = 1.5\%$
 $V = 1:200$
 $R = 1200$
 $L = 250$
 $M = 1.0$
 $H = 1.25$
 $V = 1:200$
 $L = 250$
 $M = 1.0$
 $H = 1.25$
 $V = 1:200$
 $L = 250$
 $M = 1.0$
 $H = 1.25$

STATION No.	CURVE	DISTANCE	EXISTING CONDITION		PROPOSED CONDITION	
			ELEVATION	DISTANCE	ELEVATION	DISTANCE
1184			1184.00	00.00	1184.00	00.00
1183			1183.00	00.00	1183.00	00.00
1182			1182.00	00.00	1182.00	00.00
1181			1181.00	00.00	1181.00	00.00
1180			1180.00	00.00	1180.00	00.00
1179			1179.00	00.00	1179.00	00.00
1178			1178.00	00.00	1178.00	00.00
1177			1177.00	00.00	1177.00	00.00
1176			1176.00	00.00	1176.00	00.00
1175			1175.00	00.00	1175.00	00.00
1174			1174.00	00.00	1174.00	00.00
1173			1173.00	00.00	1173.00	00.00
1172			1172.00	00.00	1172.00	00.00
1171			1171.00	00.00	1171.00	00.00
1170			1170.00	00.00	1170.00	00.00
1169			1169.00	00.00	1169.00	00.00
1168			1168.00	00.00	1168.00	00.00
1167			1167.00	00.00	1167.00	00.00
1166			1166.00	00.00	1166.00	00.00
1165			1165.00	00.00	1165.00	00.00
1164			1164.00	00.00	1164.00	00.00
1163			1163.00	00.00	1163.00	00.00
1162			1162.00	00.00	1162.00	00.00
1161			1161.00	00.00	1161.00	00.00
1160			1160.00	00.00	1160.00	00.00
1159			1159.00	00.00	1159.00	00.00
1158			1158.00	00.00	1158.00	00.00
1157			1157.00	00.00	1157.00	00.00
1156			1156.00	00.00	1156.00	00.00
1155			1155.00	00.00	1155.00	00.00
1154			1154.00	00.00	1154.00	00.00
1153			1153.00	00.00	1153.00	00.00
1152			1152.00	00.00	1152.00	00.00
1151			1151.00	00.00	1151.00	00.00
1150			1150.00	00.00	1150.00	00.00
1149			1149.00	00.00	1149.00	00.00
1148			1148.00	00.00	1148.00	00.00
1147			1147.00	00.00	1147.00	00.00
1146			1146.00	00.00	1146.00	00.00
1145			1145.00	00.00	1145.00	00.00
1144			1144.00	00.00	1144.00	00.00
1143			1143.00	00.00	1143.00	00.00
1142			1142.00	00.00	1142.00	00.00
1141			1141.00	00.00	1141.00	00.00
1140			1140.00	00.00	1140.00	00.00



- Notes :
- EA - Existing structure unnecessary for rehabilitation
 - RE - Existing structure to be rehabilitated
 - CE - Check
 - DE - Existing structure to be demolished
 - TO - Turnout
 - DT - Ditch
 - CA - Check
 - CB - Cattle beam
 - CR - Foot bridge
 - CS - Submerged bridge
 - DJ - Drains Junction
 - RS - Re-use structure
 - AD - Abutment
 - DT - Drains meet

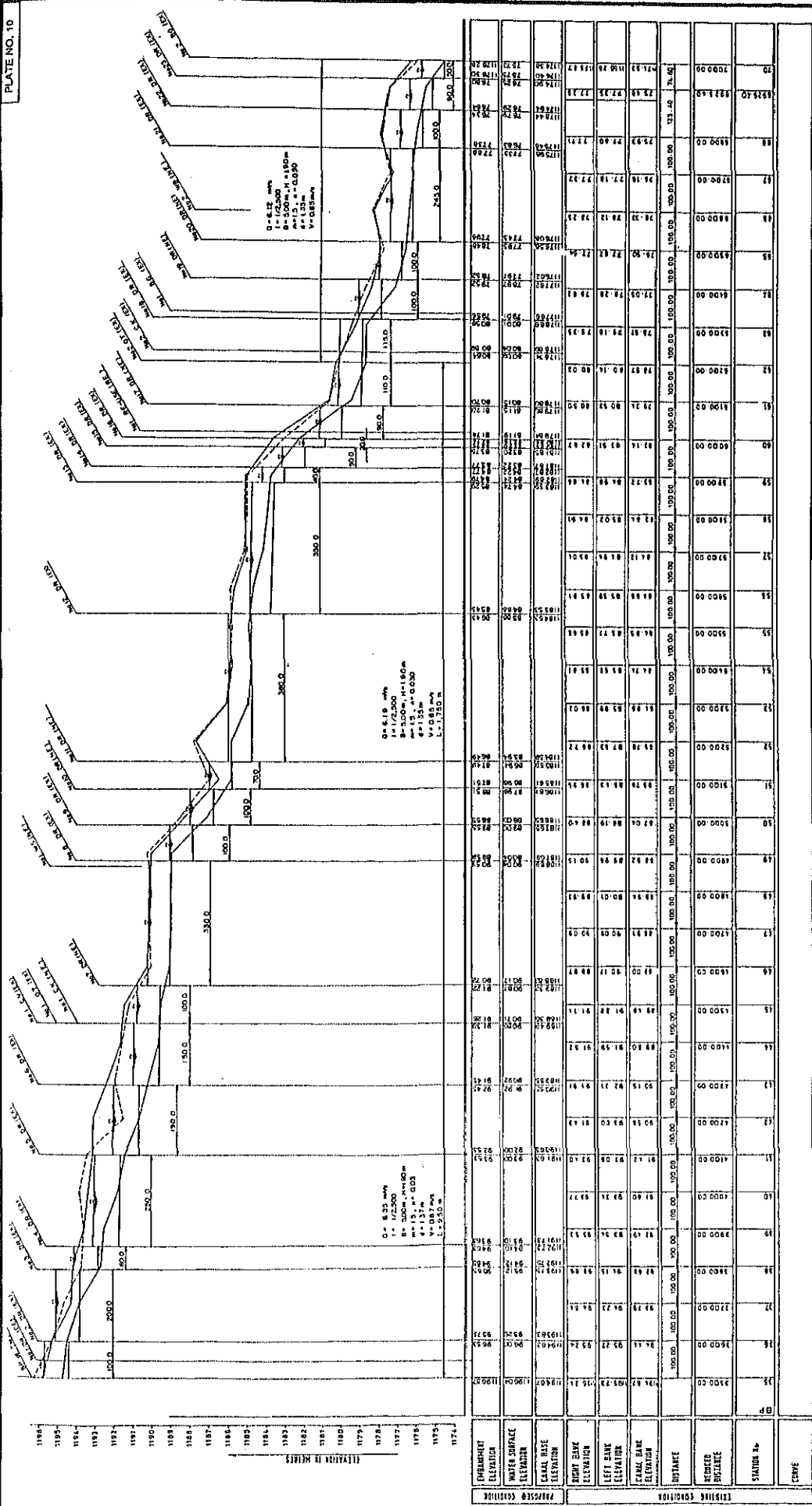


REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF NYAMENDI MAIN CANAL (2/2)

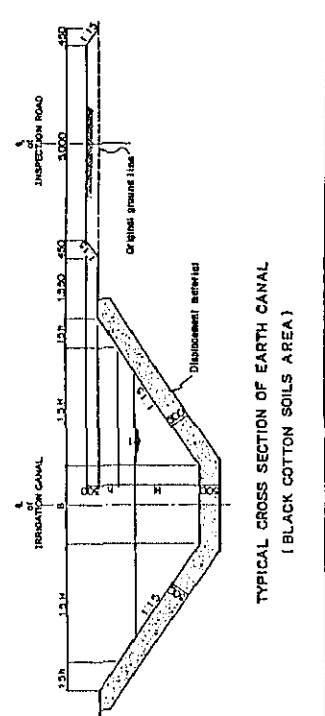
JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN

Doc. No. 206

TYPICAL CROSS SECTION OF CONCRETE LINING CANAL, BP +1.555 m ~ EP



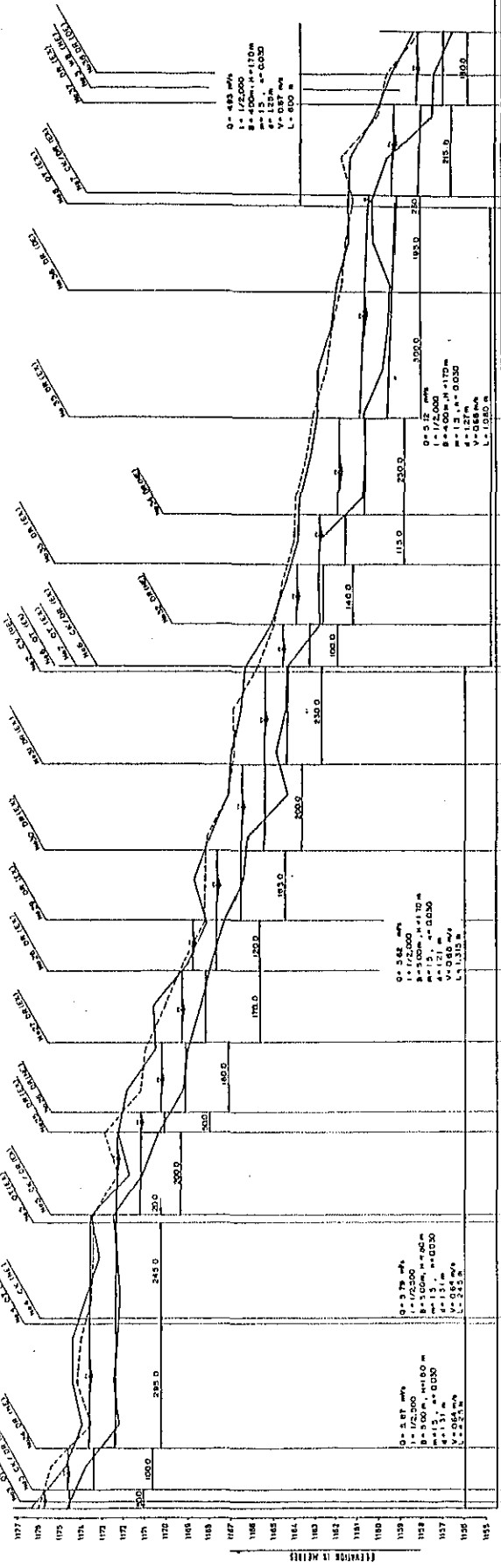
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 NWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF THIBA MAIN CANAL (1/5)
 JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. NO. 208
 TOKYO, JAPAN



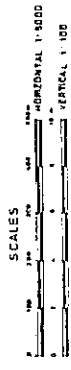
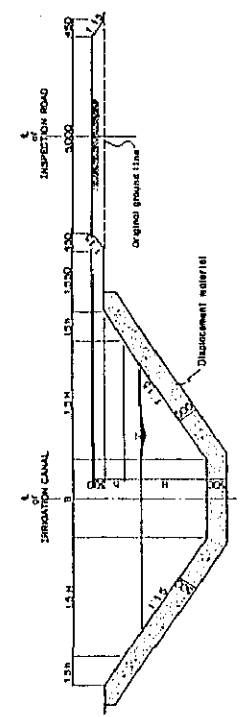
SCALES
 HORIZONTAL 1:500
 VERTICAL 1:100

Note: Et - Existing structure unnecessary for requisition to be established
 RE - Existing structure to be requisitioned
 NE - New structure to be requisitioned
 OE - Existing structure to be demolished

TS - Tunnel
 OT - Otter
 CB - Centre drain
 DB - Drain
 DBC - Drainage channel
 SB - Submerge bridge
 CJ - Culvert
 SJ - Siphon
 BA - Road drainage
 AS - An - use structure
 ST - Step
 SP - Spillway
 WS - Working area
 CS - Centre drain
 DB - Drain
 DBC - Drainage channel
 SB - Submerge bridge
 CJ - Culvert
 SJ - Siphon
 BA - Road drainage
 AS - An - use structure
 ST - Step
 SP - Spillway

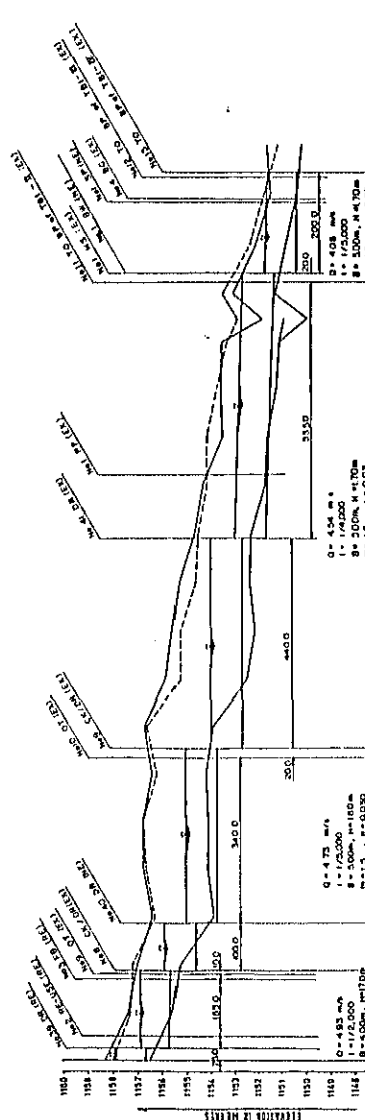


STATION	PROPOSED ELEVATION	EXISTING ELEVATION	EXISTING PROVISION	DISTANCE	REDUCED DISTANCE	STATION NO.	CURVE
1760	1855	1760		0.00	0.00	103+00	
1765	1855	1765		5.00	5.00	103+05	
1770	1855	1770		10.00	10.00	103+10	
1775	1855	1775		15.00	15.00	103+15	
1780	1855	1780		20.00	20.00	103+20	
1785	1855	1785		25.00	25.00	103+25	
1790	1855	1790		30.00	30.00	103+30	
1795	1855	1795		35.00	35.00	103+35	
1800	1855	1800		40.00	40.00	103+40	
1805	1855	1805		45.00	45.00	103+45	
1810	1855	1810		50.00	50.00	103+50	
1815	1855	1815		55.00	55.00	103+55	
1820	1855	1820		60.00	60.00	103+60	
1825	1855	1825		65.00	65.00	103+65	
1830	1855	1830		70.00	70.00	103+70	
1835	1855	1835		75.00	75.00	103+75	
1840	1855	1840		80.00	80.00	103+80	
1845	1855	1845		85.00	85.00	103+85	
1850	1855	1850		90.00	90.00	103+90	
1855	1855	1855		95.00	95.00	103+95	
1860	1855	1860		100.00	100.00	104+00	
1865	1855	1865		105.00	105.00	104+05	
1870	1855	1870		110.00	110.00	104+10	

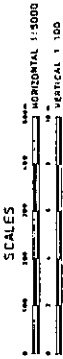


- Note:**
- TO - Turnout
 - ST - Ditch
 - RC - Existing structure to be reconstructed
 - CA - Check
 - DE - Existing structure to be demolished
 - WB - Weir
 - CB - Cut-off beam
 - SB - Siphon
 - SB - Siphon
 - SJ - Siphon junction
 - RJ - Road junction
 - US - User structure
 - SI - Siphon
 - DI - Drainage inlet

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 NWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF TIBA MAIN CANAL (C3)
 JAPAN INTERNATIONAL COOPERATION AGENCY (INCORP.)
 TOKYO JAPAN | SHEET NO. 209



STATION No.	PROPOSED CONDITIONS			EXISTING CONDITIONS		
	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION
1095.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1096.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1097.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1098.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1099.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1100.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1101.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1102.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1103.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1104.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1105.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1106.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1107.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1108.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1109.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1110.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1111.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1112.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1113.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1114.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1115.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1116.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1117.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1118.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1119.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1120.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1121.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1122.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1123.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1124.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1125.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1126.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1127.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1128.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1129.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1130.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1131.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1132.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1133.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1134.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00
1135.00	1130.00	1127.00	1128.00	1135.00	1132.00	1130.00



TYPICAL CROSS SECTION OF EARTH CANAL
(BLACK COTTON SOILS AREA)

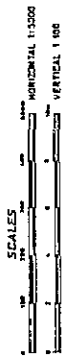
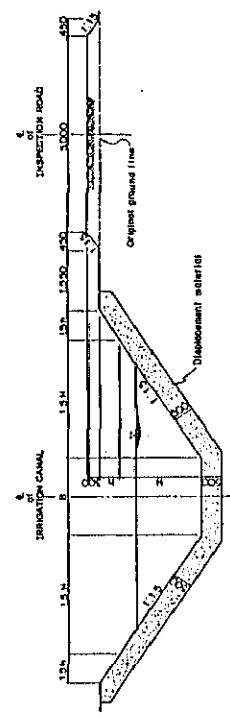
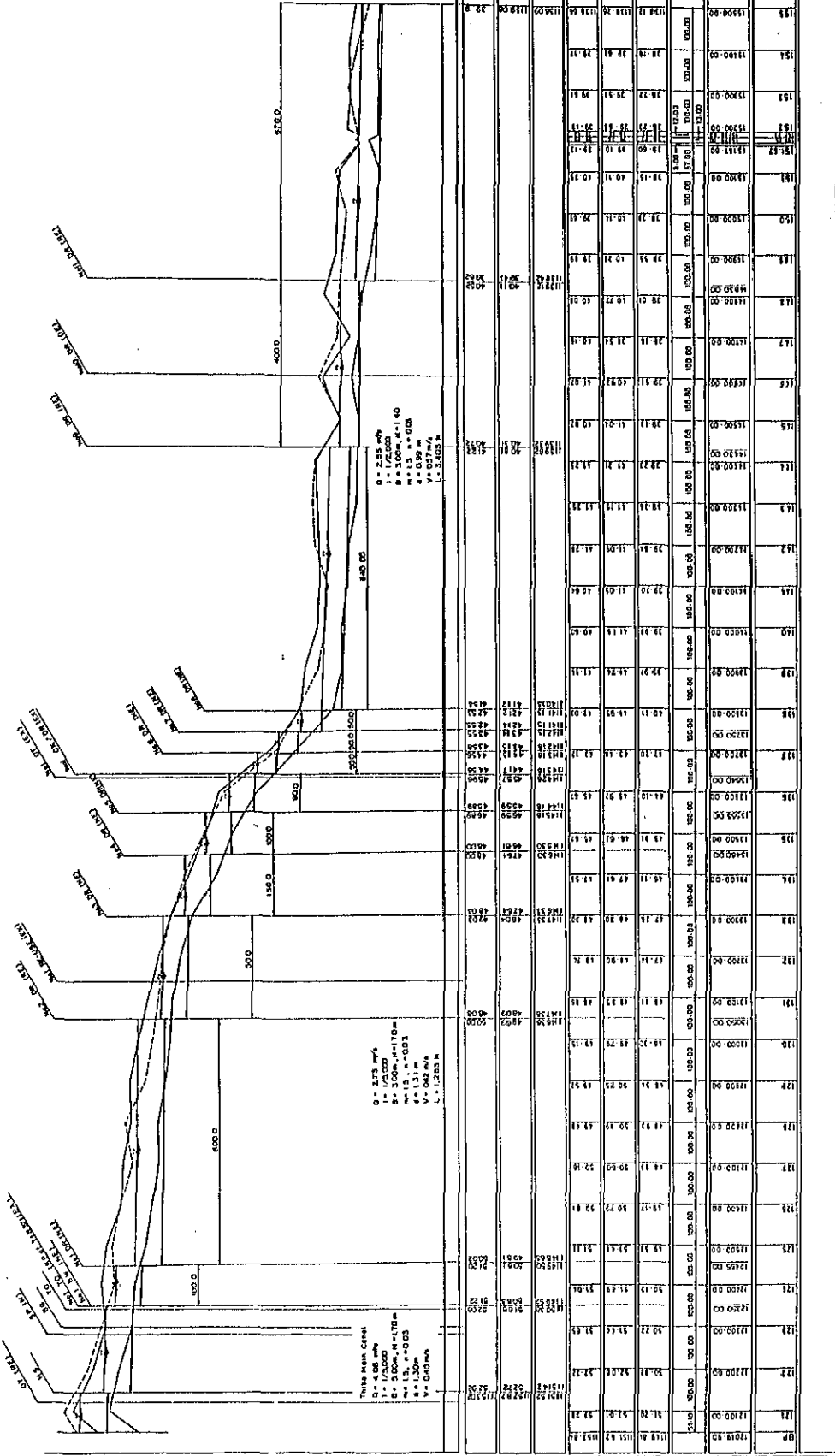
REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD RWEEA - IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING PROFILE OF THIBA MAIN CANAL (S/D)
JAPAN INTERNATIONAL COOPERATION AGENCY DWC/LNO TOKYO JAPAN 210

Note: Ex-Existing structure unnecessary for rehabilitation
 CR - Culvert
 CE - Existing structure to be reconstructed
 CE - Existing structure to be demolished
 DE - Existing structure to be demolished
 DR - Drainage
 CY - Culvert
 SY - Siphon
 DR - Drainage
 ST - Step

WB - Working stop
 CR - Coffin path
 DR - Drainage
 DS - Drainage apron
 SB - Submerged bridge
 DJ - Drainage junction
 BR - Bar-net structure
 ST - Step
 DT - Drainage inlet

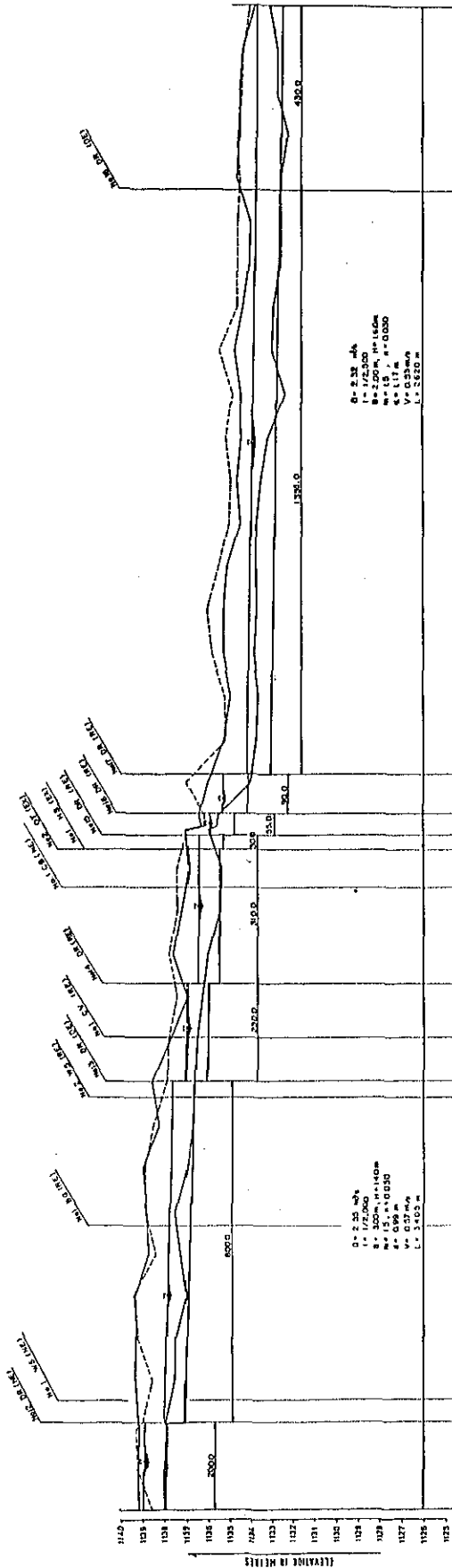
SCALES
 HORIZONTAL 1:5000
 VERTICAL 1:100

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWCA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF THEBA BRANCH CANAL (1/2)
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO, JAPAN
 DWG. NO.
 211

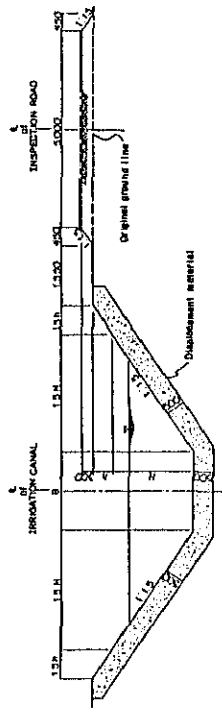


- NOTE: EX - Existing structure unnecessary for rehabilitation to be reconstructed
 NE - New structure to be constructed
 DE - Existing structure to be demolished
- TO - Turnout
 CI - Office
 CR - Cross
 CY - Culvert
 S - Siphon
 SW - Submerged weir
 RW - Rectangular raised weir
 SP - Spillway
- WS - Working step
 CL - Center line
 FS - Foundation
 DS - Drainage system
 SB - Submerged bridge
 J - Junction
 D - Drainage junction
 AD - Abutment
 SI - Siphon
 DI - Drainage inlet

TYPICAL CROSS SECTION OF EARTH CANAL
 (BLACK COTTON SOILS AREA)



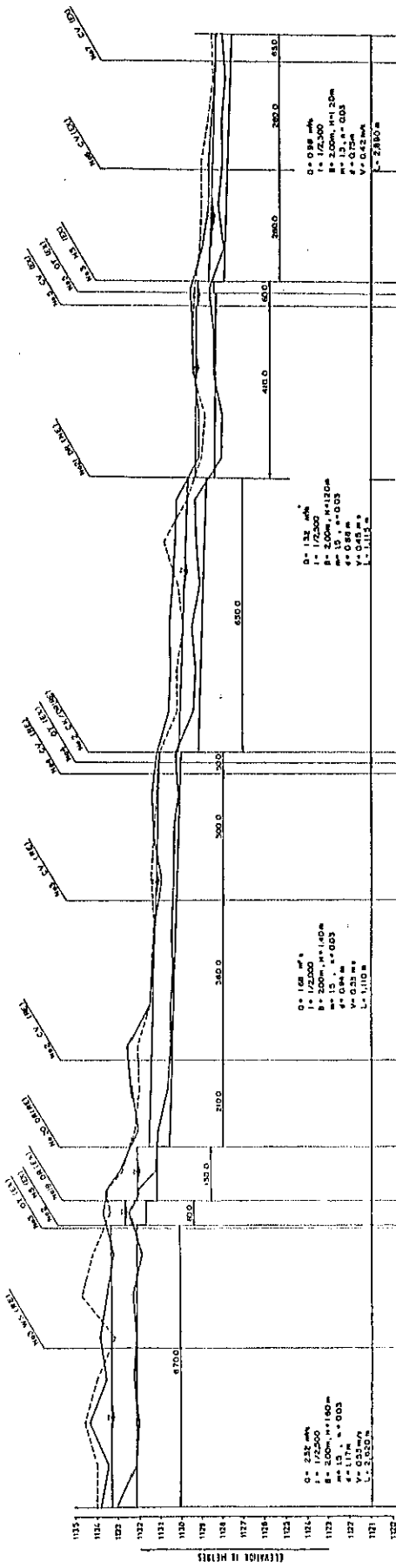
STATION	GROUND ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE DISTANCE	REDUCED DISTANCE	STATION No.
1150	1150.00	1150.00	1150.00	1150.00	1150.00	0.00	0.00	1150
1151	1151.00	1151.00	1151.00	1151.00	1151.00	0.00	0.00	1151
1152	1152.00	1152.00	1152.00	1152.00	1152.00	0.00	0.00	1152
1153	1153.00	1153.00	1153.00	1153.00	1153.00	0.00	0.00	1153
1154	1154.00	1154.00	1154.00	1154.00	1154.00	0.00	0.00	1154
1155	1155.00	1155.00	1155.00	1155.00	1155.00	0.00	0.00	1155
1156	1156.00	1156.00	1156.00	1156.00	1156.00	0.00	0.00	1156
1157	1157.00	1157.00	1157.00	1157.00	1157.00	0.00	0.00	1157
1158	1158.00	1158.00	1158.00	1158.00	1158.00	0.00	0.00	1158
1159	1159.00	1159.00	1159.00	1159.00	1159.00	0.00	0.00	1159
1160	1160.00	1160.00	1160.00	1160.00	1160.00	0.00	0.00	1160
1161	1161.00	1161.00	1161.00	1161.00	1161.00	0.00	0.00	1161
1162	1162.00	1162.00	1162.00	1162.00	1162.00	0.00	0.00	1162
1163	1163.00	1163.00	1163.00	1163.00	1163.00	0.00	0.00	1163
1164	1164.00	1164.00	1164.00	1164.00	1164.00	0.00	0.00	1164
1165	1165.00	1165.00	1165.00	1165.00	1165.00	0.00	0.00	1165
1166	1166.00	1166.00	1166.00	1166.00	1166.00	0.00	0.00	1166
1167	1167.00	1167.00	1167.00	1167.00	1167.00	0.00	0.00	1167
1168	1168.00	1168.00	1168.00	1168.00	1168.00	0.00	0.00	1168
1169	1169.00	1169.00	1169.00	1169.00	1169.00	0.00	0.00	1169
1170	1170.00	1170.00	1170.00	1170.00	1170.00	0.00	0.00	1170
1171	1171.00	1171.00	1171.00	1171.00	1171.00	0.00	0.00	1171
1172	1172.00	1172.00	1172.00	1172.00	1172.00	0.00	0.00	1172
1173	1173.00	1173.00	1173.00	1173.00	1173.00	0.00	0.00	1173
1174	1174.00	1174.00	1174.00	1174.00	1174.00	0.00	0.00	1174
1175	1175.00	1175.00	1175.00	1175.00	1175.00	0.00	0.00	1175
1176	1176.00	1176.00	1176.00	1176.00	1176.00	0.00	0.00	1176
1177	1177.00	1177.00	1177.00	1177.00	1177.00	0.00	0.00	1177
1178	1178.00	1178.00	1178.00	1178.00	1178.00	0.00	0.00	1178
1179	1179.00	1179.00	1179.00	1179.00	1179.00	0.00	0.00	1179
1180	1180.00	1180.00	1180.00	1180.00	1180.00	0.00	0.00	1180
1181	1181.00	1181.00	1181.00	1181.00	1181.00	0.00	0.00	1181
1182	1182.00	1182.00	1182.00	1182.00	1182.00	0.00	0.00	1182
1183	1183.00	1183.00	1183.00	1183.00	1183.00	0.00	0.00	1183
1184	1184.00	1184.00	1184.00	1184.00	1184.00	0.00	0.00	1184
1185	1185.00	1185.00	1185.00	1185.00	1185.00	0.00	0.00	1185
1186	1186.00	1186.00	1186.00	1186.00	1186.00	0.00	0.00	1186
1187	1187.00	1187.00	1187.00	1187.00	1187.00	0.00	0.00	1187
1188	1188.00	1188.00	1188.00	1188.00	1188.00	0.00	0.00	1188
1189	1189.00	1189.00	1189.00	1189.00	1189.00	0.00	0.00	1189
1190	1190.00	1190.00	1190.00	1190.00	1190.00	0.00	0.00	1190
1191	1191.00	1191.00	1191.00	1191.00	1191.00	0.00	0.00	1191
1192	1192.00	1192.00	1192.00	1192.00	1192.00	0.00	0.00	1192
1193	1193.00	1193.00	1193.00	1193.00	1193.00	0.00	0.00	1193
1194	1194.00	1194.00	1194.00	1194.00	1194.00	0.00	0.00	1194
1195	1195.00	1195.00	1195.00	1195.00	1195.00	0.00	0.00	1195
1196	1196.00	1196.00	1196.00	1196.00	1196.00	0.00	0.00	1196
1197	1197.00	1197.00	1197.00	1197.00	1197.00	0.00	0.00	1197
1198	1198.00	1198.00	1198.00	1198.00	1198.00	0.00	0.00	1198
1199	1199.00	1199.00	1199.00	1199.00	1199.00	0.00	0.00	1199
1200	1200.00	1200.00	1200.00	1200.00	1200.00	0.00	0.00	1200



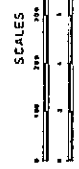
HORIZONTAL 1:5000
 VERTICAL 1:100

- NOT: EX - Existing structure unnecessary for rehabilitation
 RE - Existing structure to be rehabilitated
 NE - New structure to be constructed
 CE - Existing structure to be demolished
 TO - Turnout
 OT - Offtake
 CB - Cattle basin
 FB - Foot bridge
 DB - Drainage basin
 CS - Cross
 SJ - Siphon
 DW - Broad crested weir
 SW - Rectangular crest weir
 ST - Sluiceway
 DT - Drainage inlet
- WS - Working area
 CB - Cattle basin
 FB - Foot bridge
 DB - Drainage basin
 CS - Cross
 SJ - Siphon
 DW - Broad crested weir
 SW - Rectangular crest weir
 ST - Sluiceway
 DT - Drainage inlet

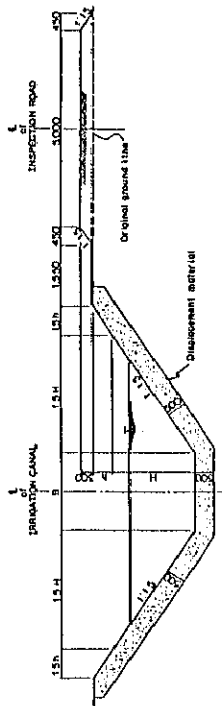
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF THIBA BRANCH CANAL (25)
 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 TOKYO JAPAN
 DWG. NO. 212



STATION No.	EXISTING CONDITION	PROPOSED CONDITION	RECIPIER DISTANCE	STATION No.
1180	19050.00	19050.00	100.00	1180
1181	19125.00	19125.00	100.00	1181
1182	19200.00	19200.00	100.00	1182
1183	19275.00	19275.00	100.00	1183
1184	19350.00	19350.00	100.00	1184
1185	19425.00	19425.00	100.00	1185
1186	19500.00	19500.00	100.00	1186
1187	19575.00	19575.00	100.00	1187
1188	19650.00	19650.00	100.00	1188
1189	19725.00	19725.00	100.00	1189
1190	19800.00	19800.00	100.00	1190
1191	19875.00	19875.00	100.00	1191
1192	19950.00	19950.00	100.00	1192
1193	20025.00	20025.00	100.00	1193
1194	20100.00	20100.00	100.00	1194
1195	20175.00	20175.00	100.00	1195
1196	20250.00	20250.00	100.00	1196
1197	20325.00	20325.00	100.00	1197
1198	20400.00	20400.00	100.00	1198
1199	20475.00	20475.00	100.00	1199
1200	20550.00	20550.00	100.00	1200
1201	20625.00	20625.00	100.00	1201
1202	20700.00	20700.00	100.00	1202
1203	20775.00	20775.00	100.00	1203
1204	20850.00	20850.00	100.00	1204
1205	20925.00	20925.00	100.00	1205
1206	21000.00	21000.00	100.00	1206
1207	21075.00	21075.00	100.00	1207
1208	21150.00	21150.00	100.00	1208
1209	21225.00	21225.00	100.00	1209
1210	21300.00	21300.00	100.00	1210
1211	21375.00	21375.00	100.00	1211
1212	21450.00	21450.00	100.00	1212
1213	21525.00	21525.00	100.00	1213
1214	21600.00	21600.00	100.00	1214
1215	21675.00	21675.00	100.00	1215
1216	21750.00	21750.00	100.00	1216
1217	21825.00	21825.00	100.00	1217
1218	21900.00	21900.00	100.00	1218
1219	21975.00	21975.00	100.00	1219
1220	22050.00	22050.00	100.00	1220
1221	22125.00	22125.00	100.00	1221
1222	22200.00	22200.00	100.00	1222



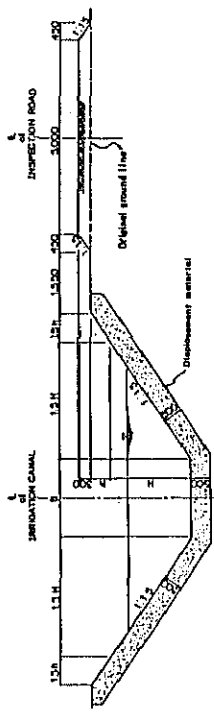
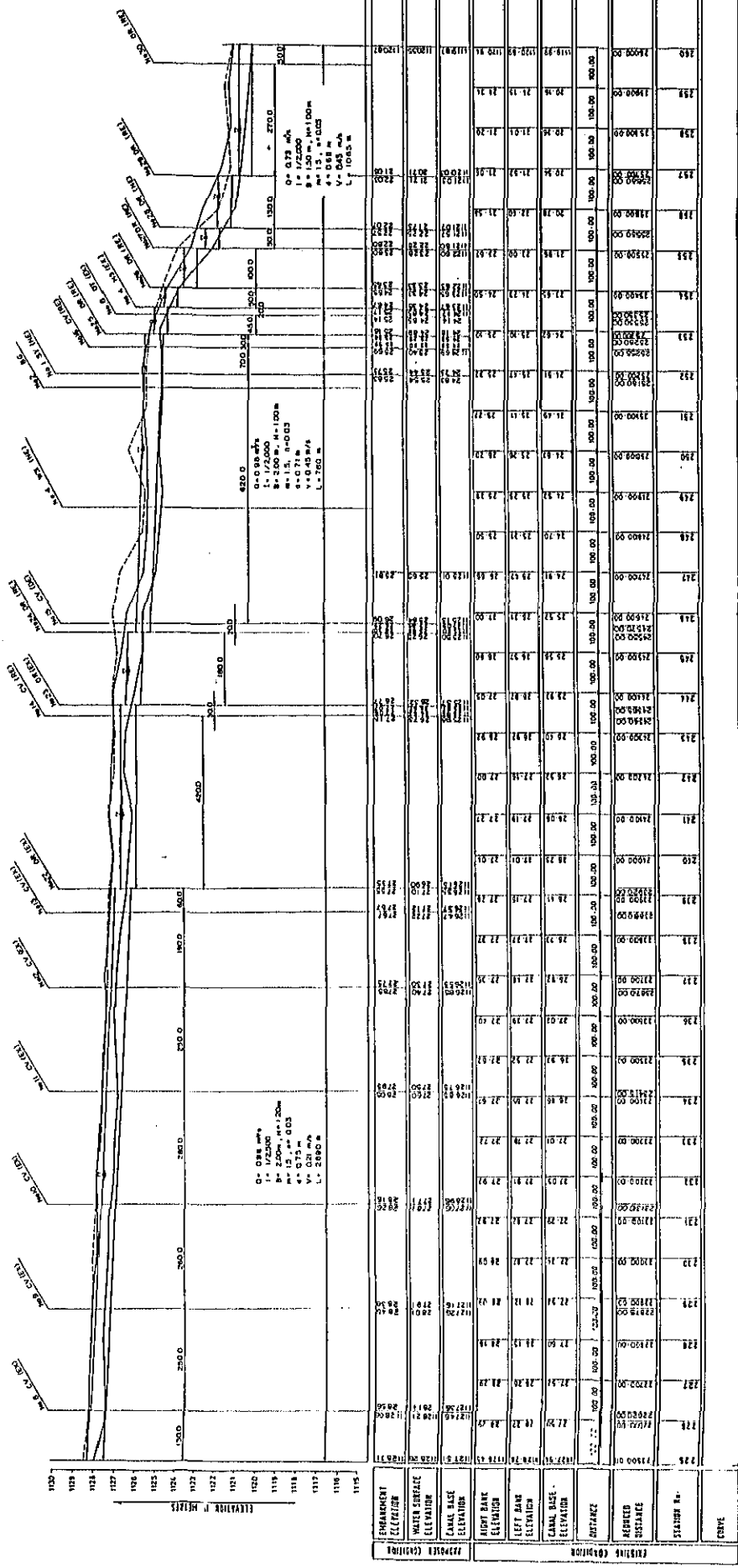
- Note :
- ES = Existing structure unnecessary
 - RE = Existing structure to be rehabilitated
 - NE = New structure to be constructed
 - DE = Existing structure to be demolished
 - TO = Trough
 - CO = Culvert
 - CA = Check
 - CR = Drop
 - CP = Culvert
 - DS = Drainage siphon
 - SB = Submerged bridge
 - SB = Bridge structure
 - AD = Aqueduct
 - SP = Spillway
 - WS = Weiring step
 - CB = Check bridge
 - FB = Foot bridge
 - DSY = Drainage siphon
 - SB = Submerged bridge
 - SB = Bridge structure
 - AD = Aqueduct
 - SP = Spillway



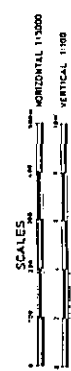
TYPICAL CROSS SECTION OF EARTH CANAL
(BLACK COTTON SOILS AREA)

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 HWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF THIBA BRANCH CANAL (35)

JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO, JAPAN
 DWG. NO. 213

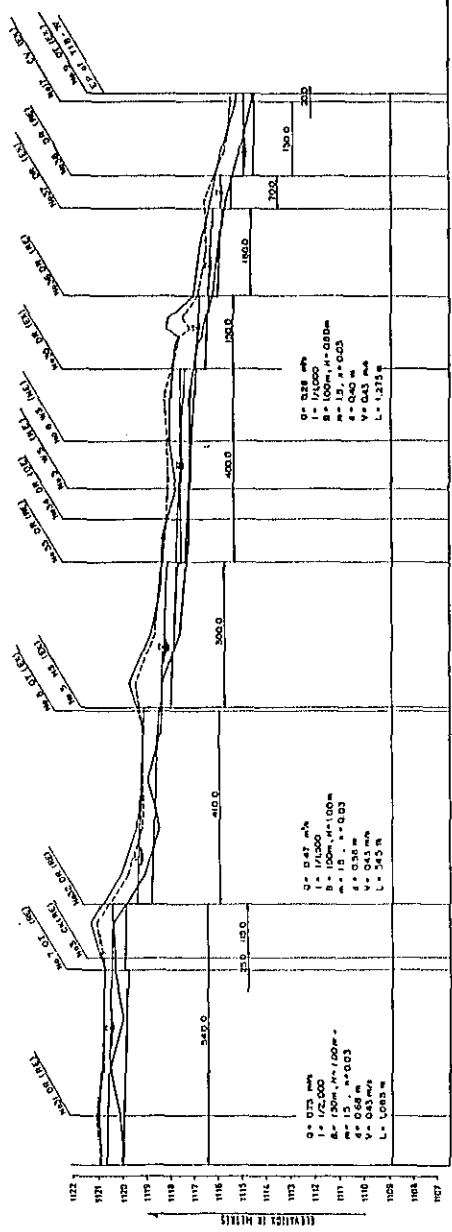


TYPICAL CROSS SECTION OF EARTH CANAL
(BLACK COTTON SOILS AREA)

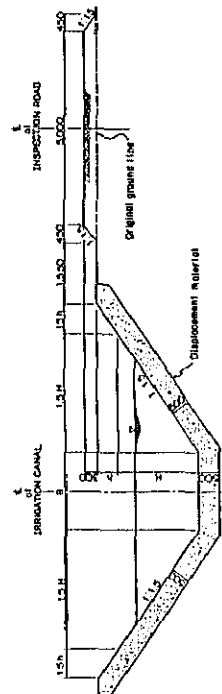


- NOTE :
- EX - Existing structure unnecessary
 - RE - Existing structure to be rehabilitated
 - NE - New structure to be constructed
 - OC - Existing structure to be demolished
 - TO - Through
 - OT - Offtake
 - CA - Check
 - CR - Cross
 - SI - Siphon
 - BR - Broad crested weir
 - AW - Arch weir
 - SD - Substructure
 - SI - Siphon
 - WB - Working bed
 - CB - Collar beam
 - FB - Foot bridge
 - SB - Storage basin
 - DJ - Drainage junction
 - RS - Re-use structure
 - AD - Aqueduct
 - D1 - Drainage inlet

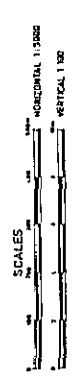
REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME
DEVELOPMENT PROJECT
TITLE OF DRAWING
PROFILE OF THIBA BRANCH CANAL (45)
JAPAN INTERNATIONAL COOPERATION AGENCY INC. NO. 214
TOKYO JAPAN



STATION	CHANNEL ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CHANNEL BASE ELEVATION	CHANNEL WIDTH	CHANNEL AREA	CHANNEL PERIMETER	CHANNEL VELOCITY	CHANNEL DISCHARGE	CHANNEL FLOW	CHANNEL TYPE
1107	1107.00	1107.00	1107.00	1107.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1108	1108.00	1108.00	1108.00	1108.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1109	1109.00	1109.00	1109.00	1109.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1110	1110.00	1110.00	1110.00	1110.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1111	1111.00	1111.00	1111.00	1111.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1112	1112.00	1112.00	1112.00	1112.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1113	1113.00	1113.00	1113.00	1113.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1114	1114.00	1114.00	1114.00	1114.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1115	1115.00	1115.00	1115.00	1115.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1116	1116.00	1116.00	1116.00	1116.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1117	1117.00	1117.00	1117.00	1117.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1118	1118.00	1118.00	1118.00	1118.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1119	1119.00	1119.00	1119.00	1119.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1120	1120.00	1120.00	1120.00	1120.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1121	1121.00	1121.00	1121.00	1121.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1122	1122.00	1122.00	1122.00	1122.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1123	1123.00	1123.00	1123.00	1123.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1124	1124.00	1124.00	1124.00	1124.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1125	1125.00	1125.00	1125.00	1125.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1126	1126.00	1126.00	1126.00	1126.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal
1127	1127.00	1127.00	1127.00	1127.00	3.45	11.92	11.92	0.00	0.00	0.00	Earth Canal



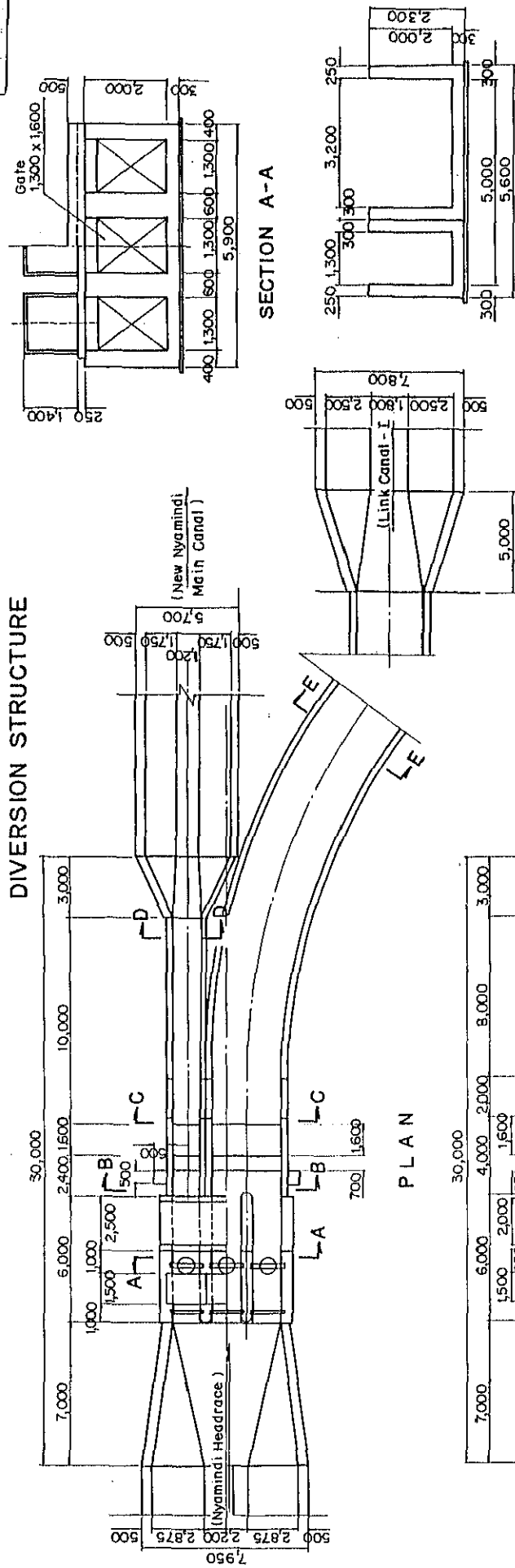
TYPICAL CROSS SECTION OF EARTH CANAL (BLACK COTTON SOILS AREA)



- Note:
- Es - Existing structure uncorrected
 - Es - Existing structure for rehabilitation
 - Es - Existing structure to be reconstructed
 - Es - Existing structure to be demolished
 - Es - Existing structure to be completed
 - TO - Tunnel
 - OT - Offtake
 - GK - Check
 - Co - Canal
 - ST - Station
 - Bw - Broad crested weir
 - sq - Rectangular crested weir
 - SP - Spillway
 - WS - Weir/steep slope
 - CB - Control basin
 - FB - Foot bridge
 - SB - Substructure
 - DS - Drainage junction
 - R.S - Re-use structure
 - AD - Aqueduct
 - D1 - Drainage inlet

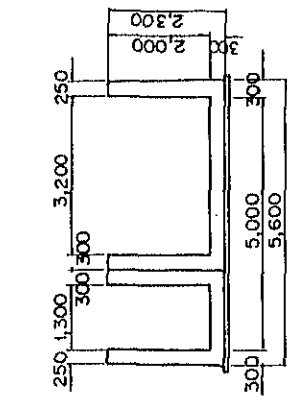
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF TRIBA BRANCH CANAL (55)
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN
 DWG. NO. 215

DIVERSION STRUCTURE

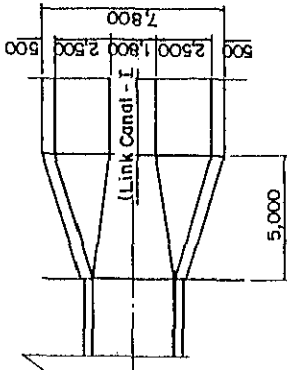


PLAN

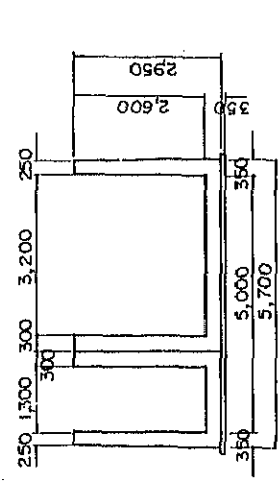
SECTION A-A



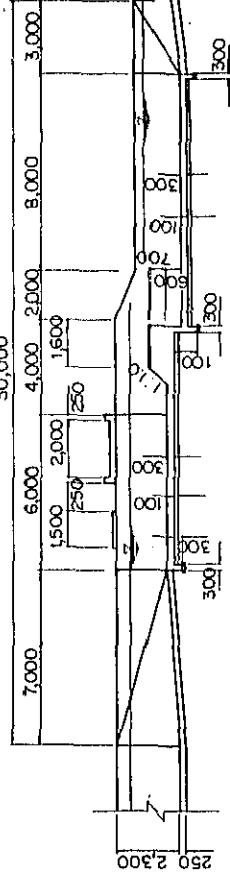
SECTION B-B



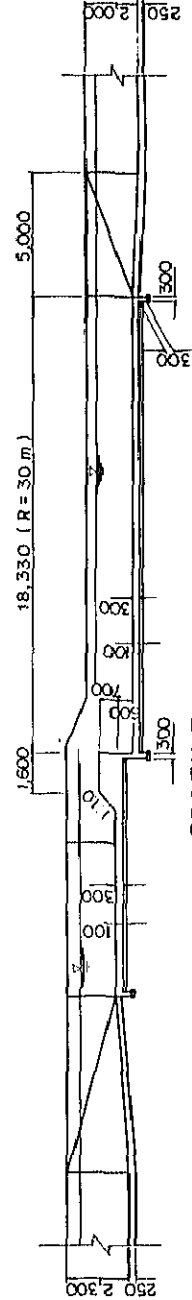
SECTION C-C



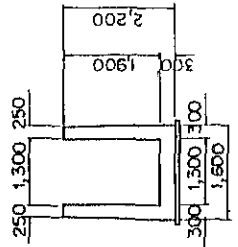
PROFILE



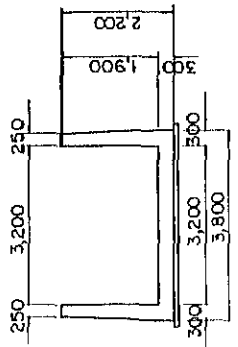
PROFILE



SECTION D-D

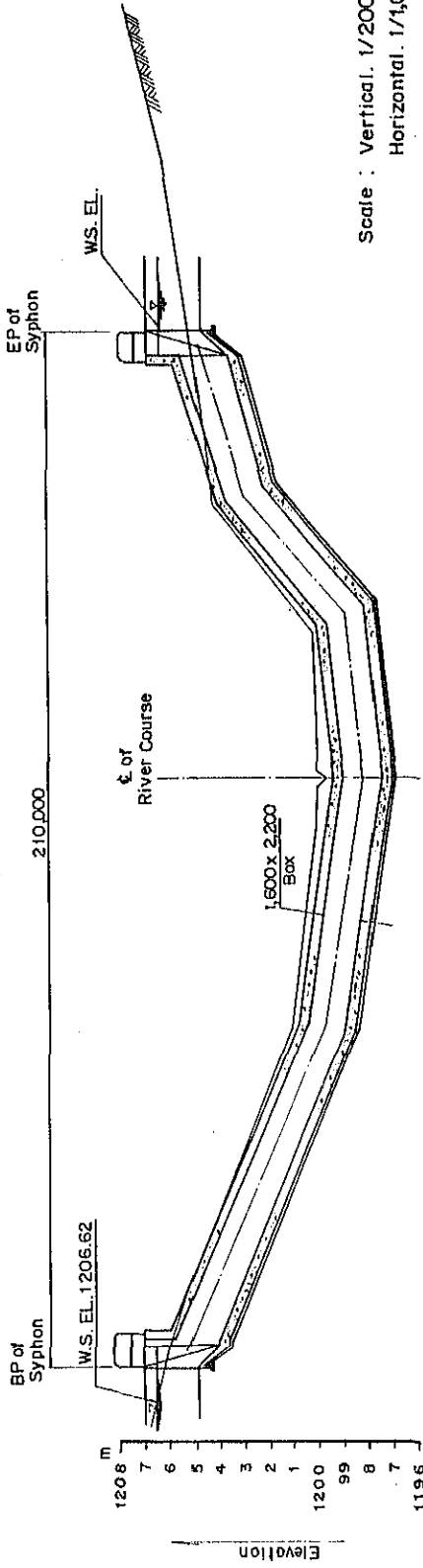


SECTION E-E

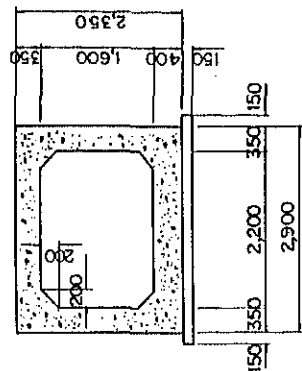
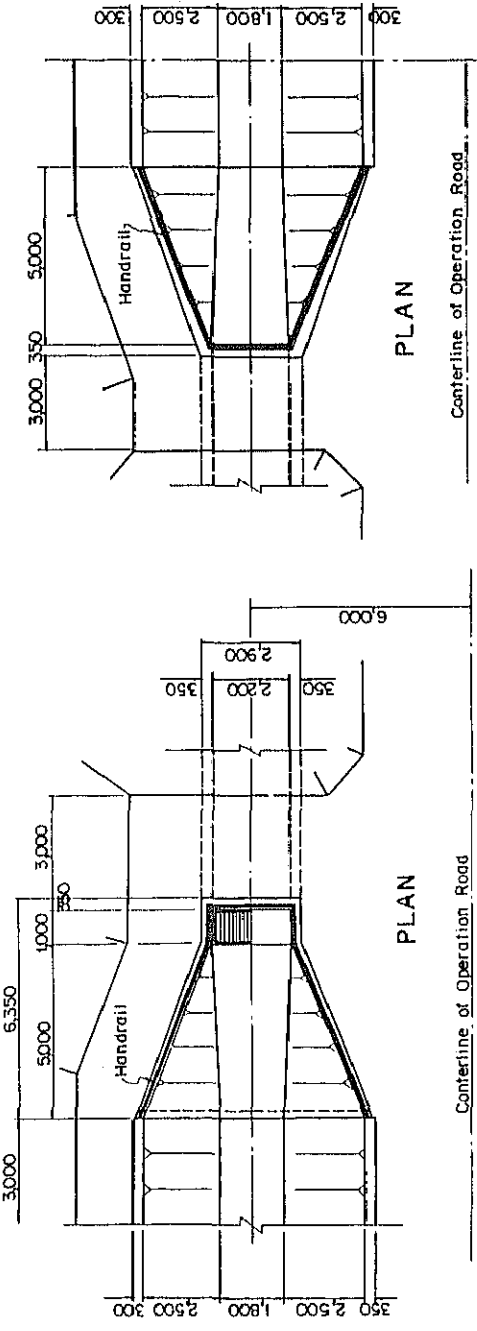
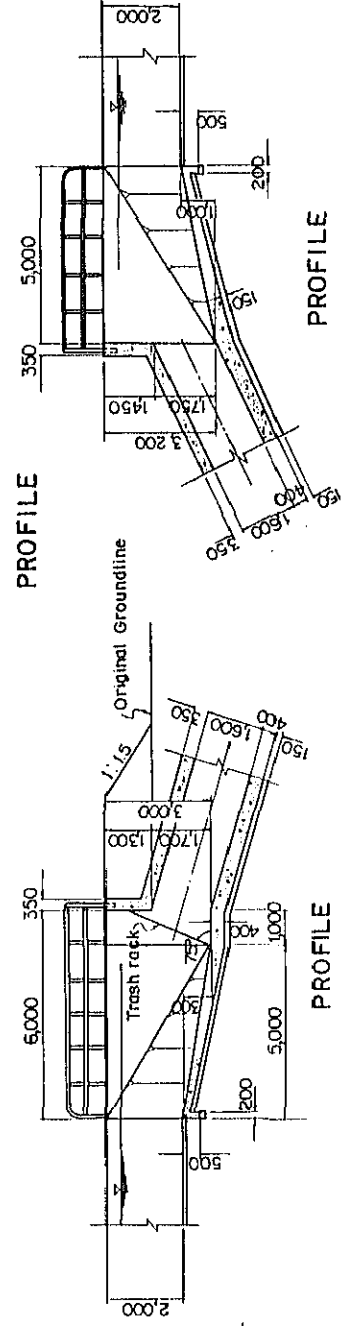


REPUBLIC OF KENYA	JWC. NO.	301
NATIONAL IRRIGATION BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY	
MWEA IRRIGATION SETTLEMENT SCHEME	TOKYO JAPAN	
DEVELOPMENT PROJECT		
TITLE OF DRAWING		
DIVERSION STRUCTURE		

SYPHON



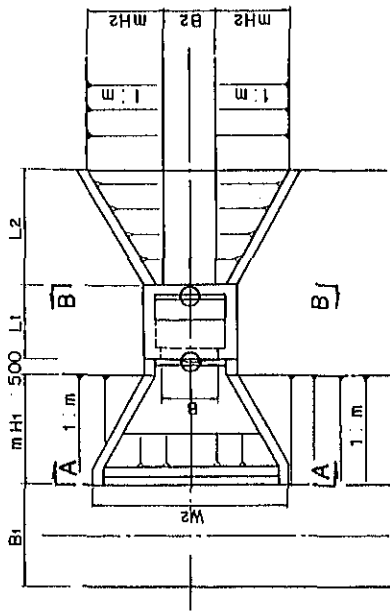
Scale : Vertical. 1/200
Horizontal. 1/1,000



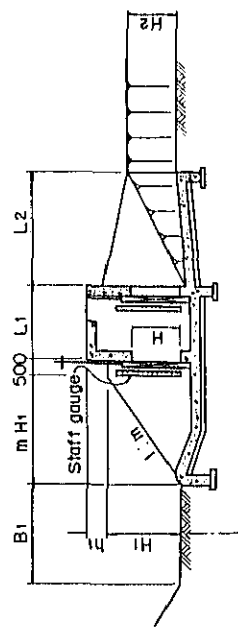
CONDUIT

REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING SYPHON (ON LINK CANAL)
JAPAN INTERNATIONAL COOPERATION AGENCY DWA. NO. 302 TOKYO JAPAN

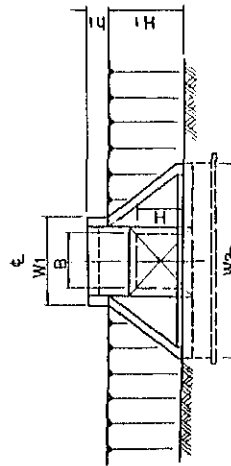
OFFTAKE (TYPE-A)



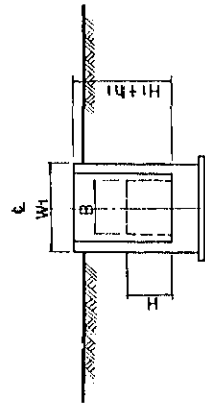
PLAN



PROFILE

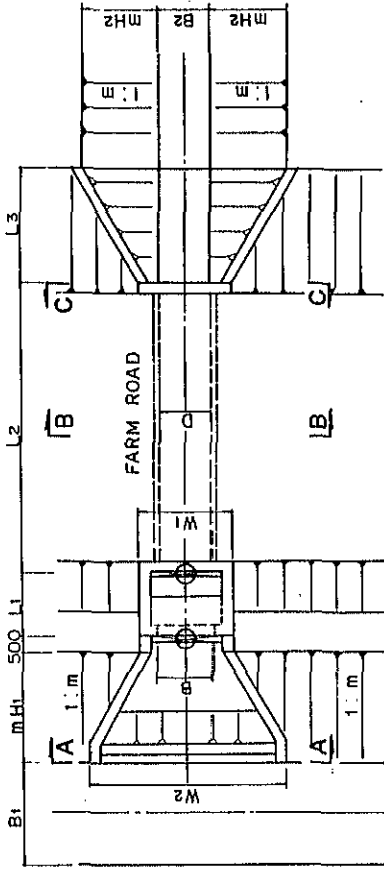


SECTION A-A

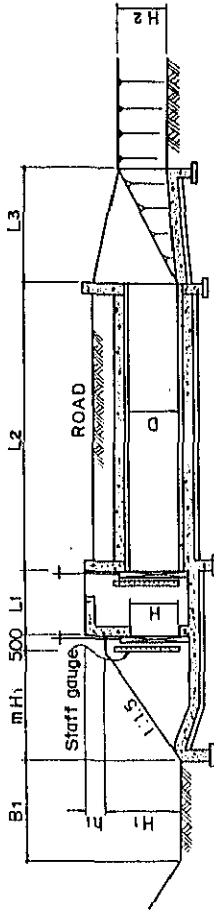


SECTION B-B

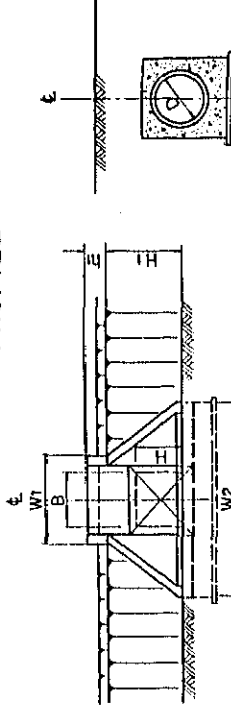
OFFTAKE (TYPE-B)



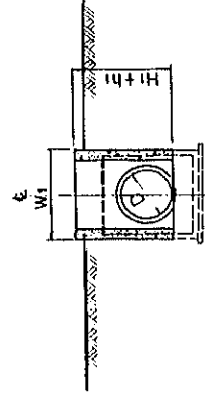
PLAN



PROFILE



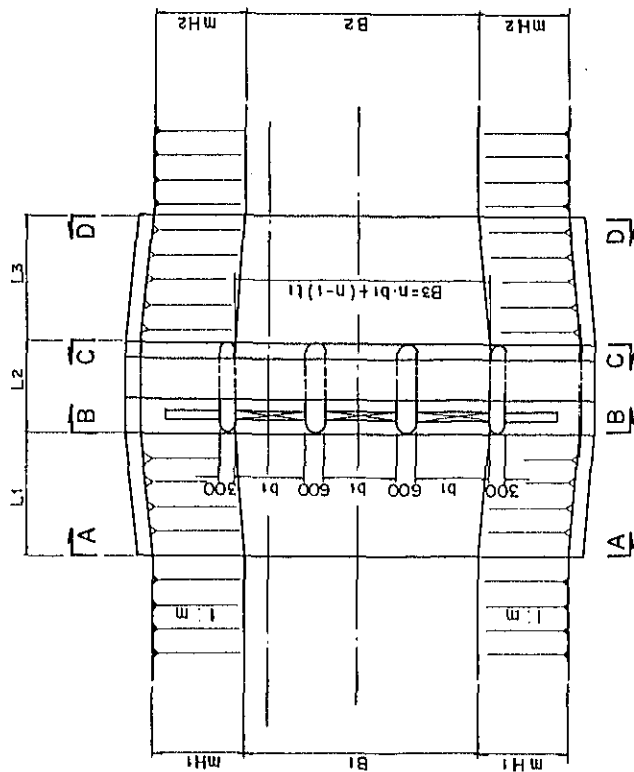
SECTION A-A



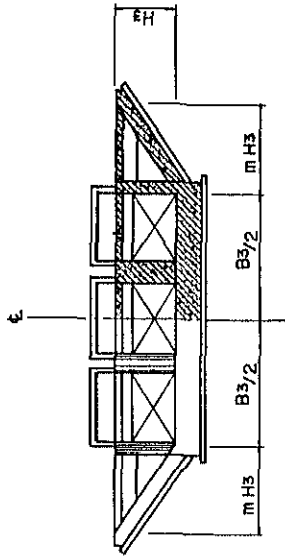
SECTION B-B

REPUBLIC OF KENYA	
NATIONAL IRRIGATION BOARD	
HWEA IRRIGATION SETTLEMENT SCHEME	
DEVELOPMENT PROJECT	
TITLE OF DRAWING	
OFFTAKE (TYPE-A&B)	
JAPAN INTERNATIONAL COOPERATION AGENCY	DWC-NO.
TOKYO JAPAN	303

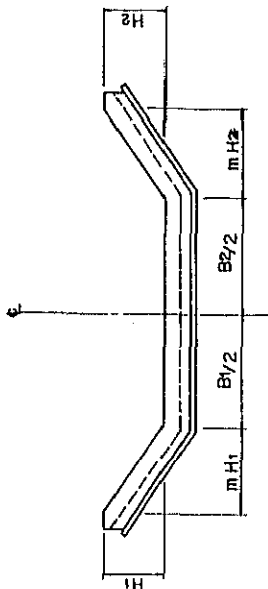
CHECK (TYPE - A)



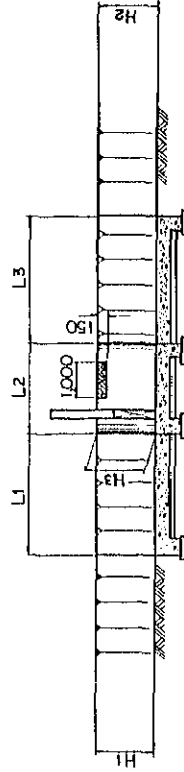
PLAN



SECTION B-B SECTION C-C



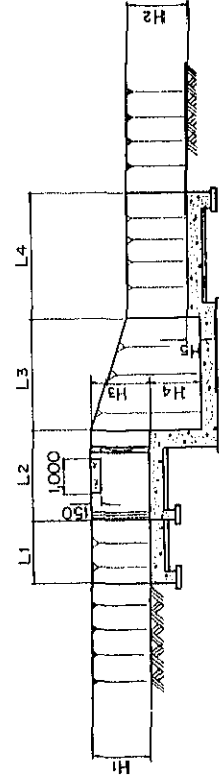
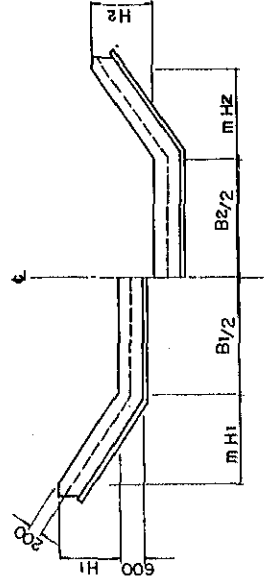
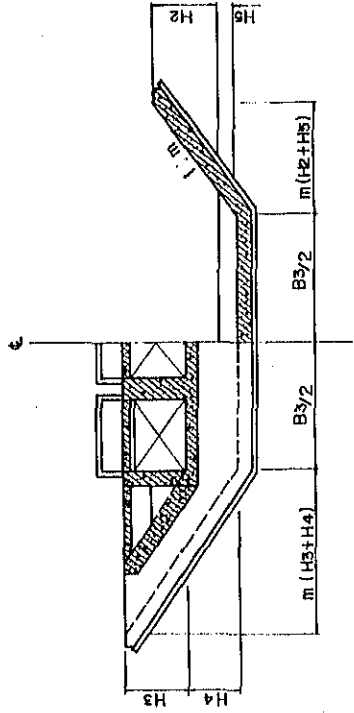
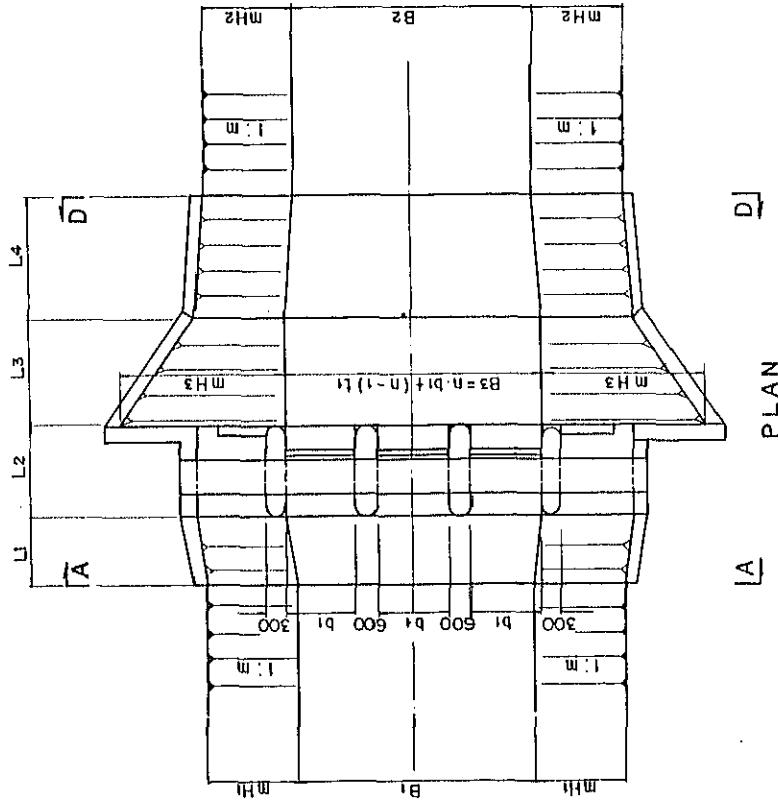
SECTION A-A SECTION D-D



PROFILE

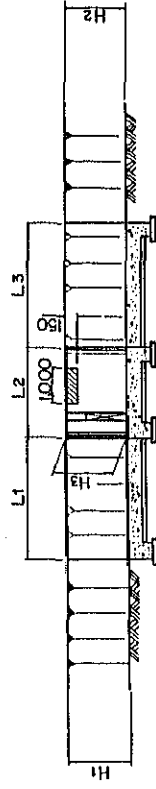
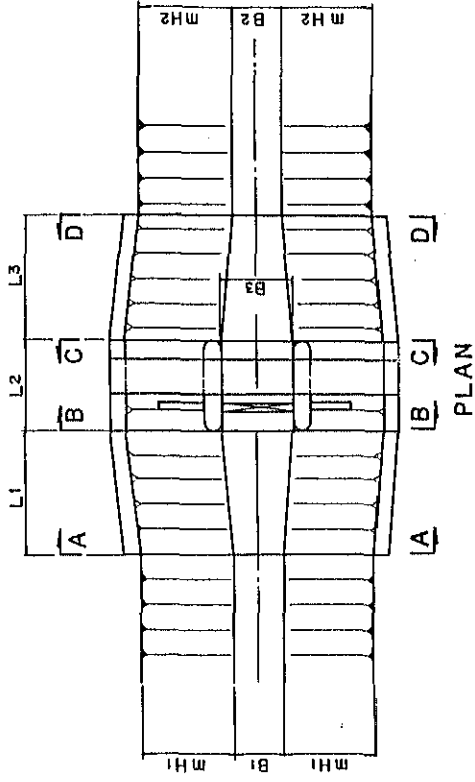
REPUBLIC OF KENYA	DWG. NO.	304
NATIONAL IRRIGATION BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	TITLE OF DRAWING	
CHECK (TYPE-A)	CHECK (TYPE-A)	

CHECK (TYPE - B)

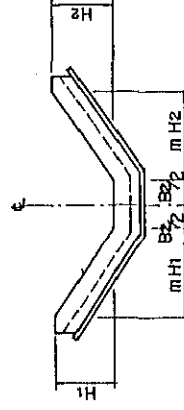


REPUBLIC OF KENYA	JAPAN INTERNATIONAL COOPERATION AGENCY	DWG. NO.	305
NATIONAL IRRIGATION BOARD			
HWEA IRRIGATION SETTLEMENT SCHEME			
DEVELOPMENT PROJECT			
TITLE OF DRAWING			
CHECK (TYPE-B)			
TOKYO JAPAN			

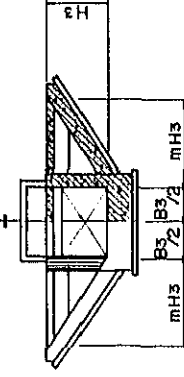
CHECK (TYPE C)



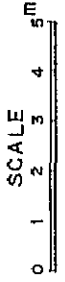
PROFILE



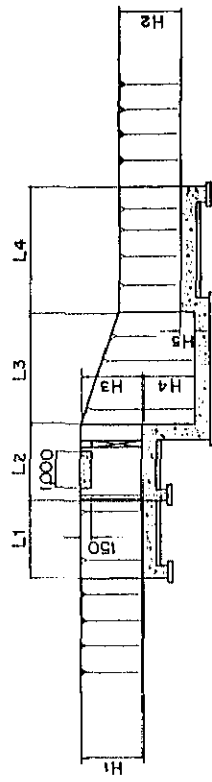
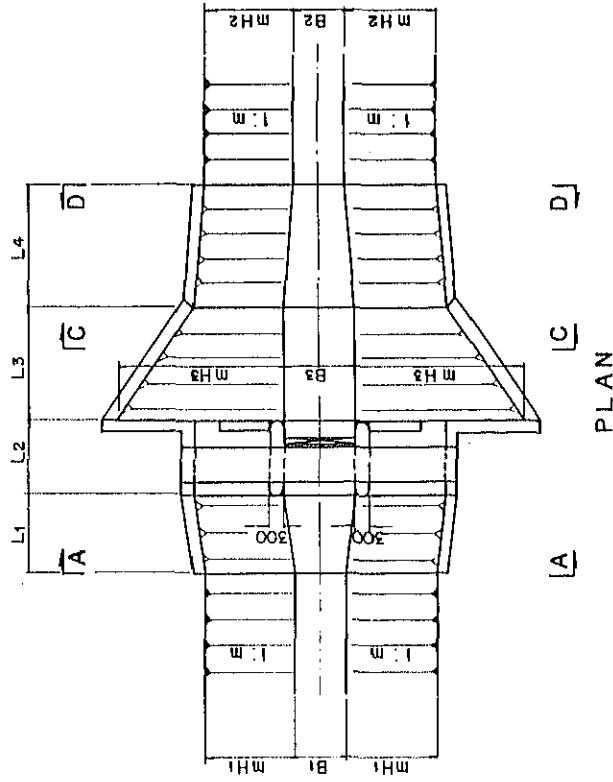
SECTION D-D



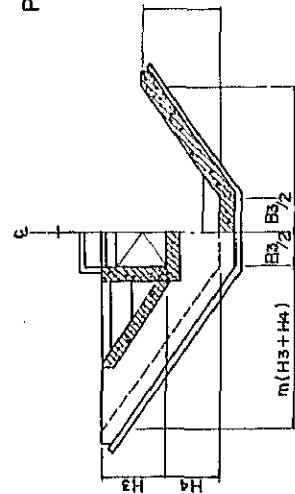
SECTION C-C



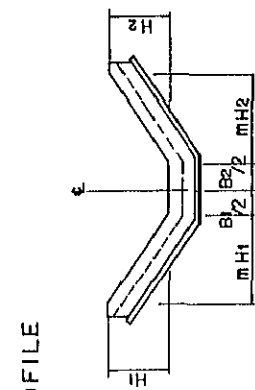
CHECK (TYPE D)



PROFILE



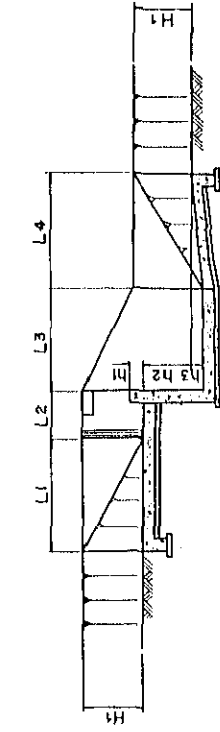
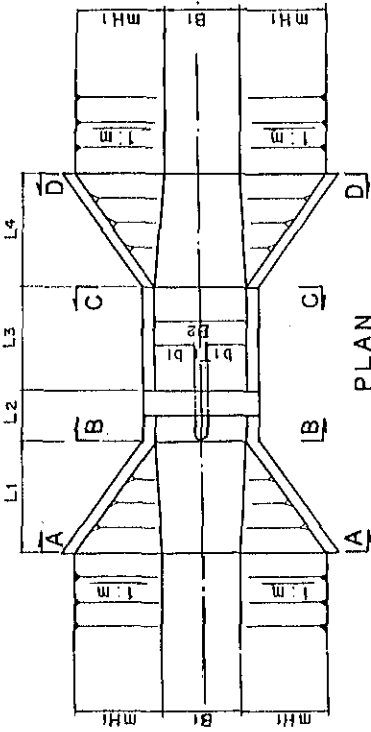
SECTION D-D



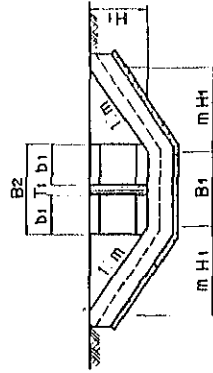
SECTION C-C

REPUBLIC OF KENYA	DWG. NO.	306
NATIONAL IRRIGATION BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY	TSUKUBA, JAPAN
NAWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT		
TITLE OF DRAWING		
CHECK (TYPE-C&D)		

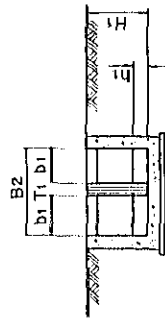
DROP (TYPE-A)



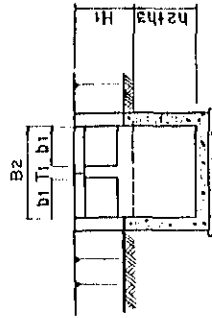
SECTION A-A



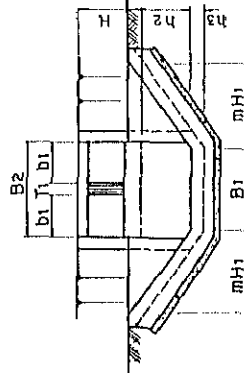
SECTION B-B



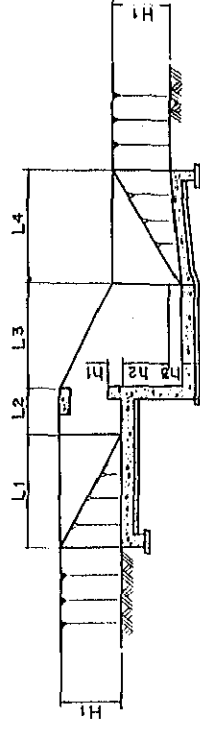
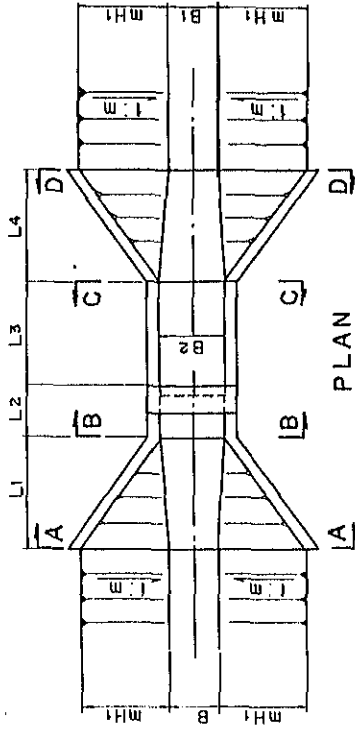
SECTION C-C



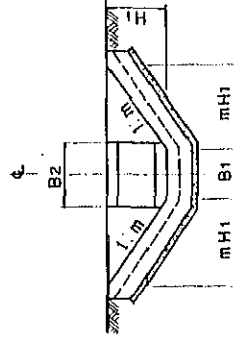
SECTION D-D



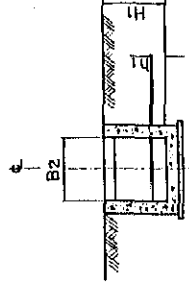
DROP (TYPE-B)



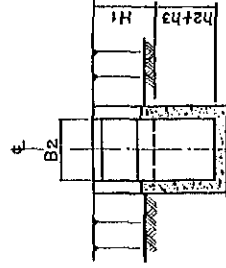
SECTION A-A



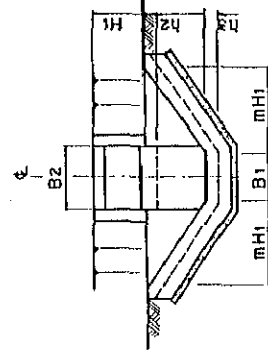
SECTION B-B



SECTION C-C

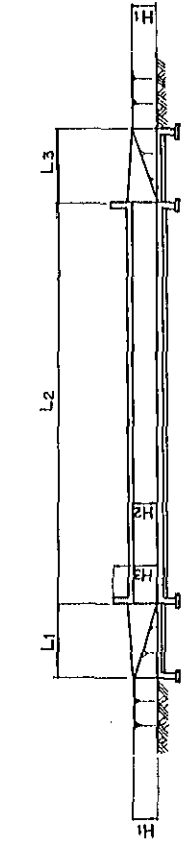


SECTION D-D

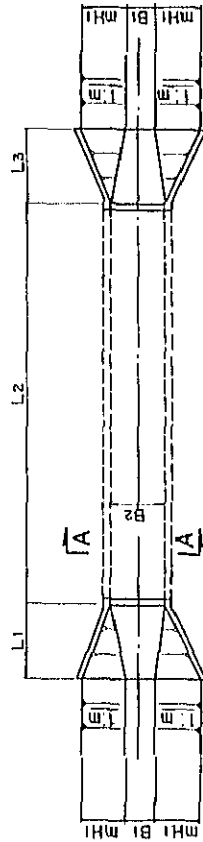


REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING DROP (TYPE-A&B)
JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO. 307 TOKYO JAPAN

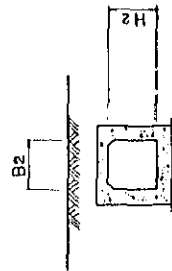
CULVERT (TYPE-A)



PROFILE

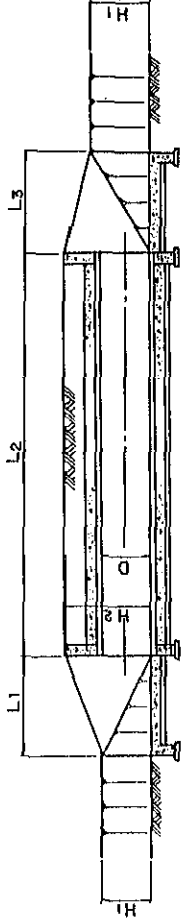


PLAN

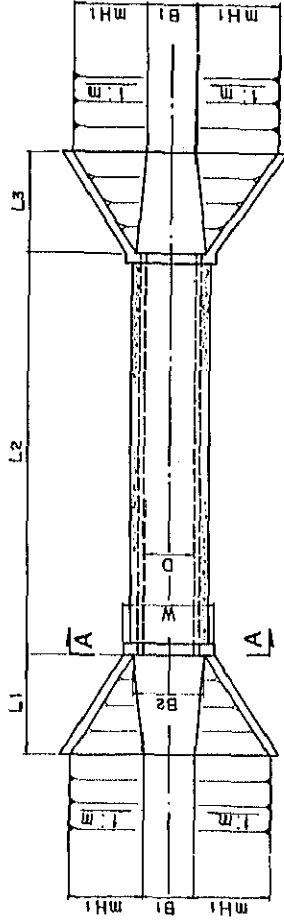


SECTION A-A

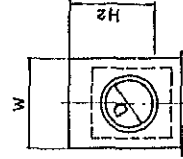
CULVERT (TYPE-B)



PROFILE



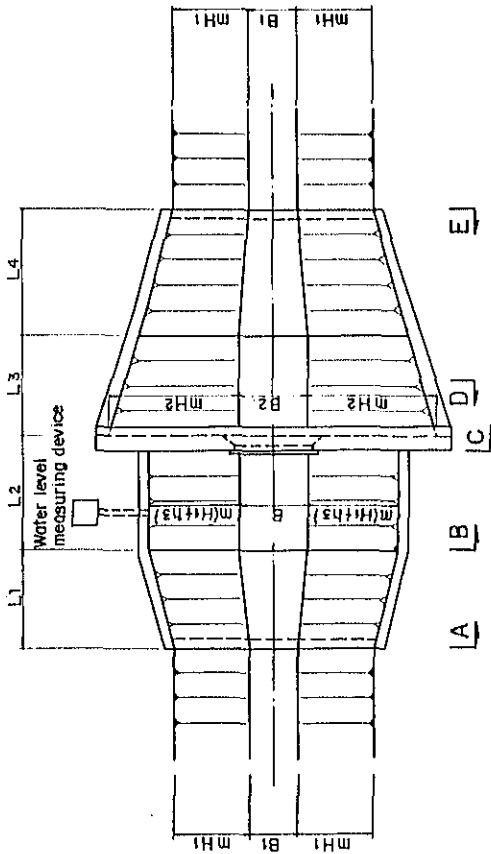
PLAN



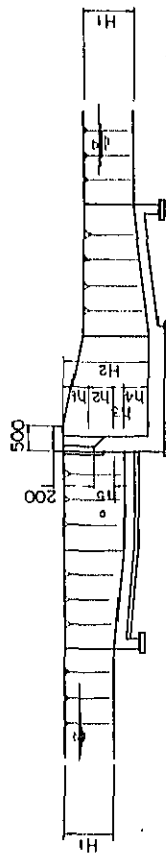
SECTION A-A

REPUBLIC OF KENYA	DWG. NO.	308
NATIONAL IRRIGATION BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO, JAPAN	
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	CULVERT (TYPE-A&B)	
TITLE OF DRAWING		

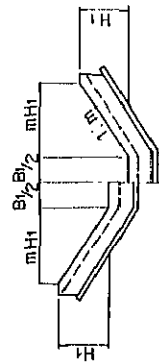
RECTANGULAR SHARP-CRESTED WEIR



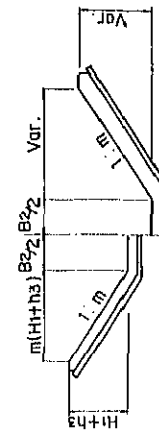
PLAN



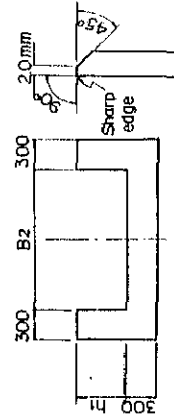
PROFILE



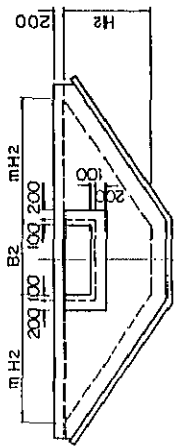
SECTION A-A SECTION E-E



SECTION B-B SECTION D-D

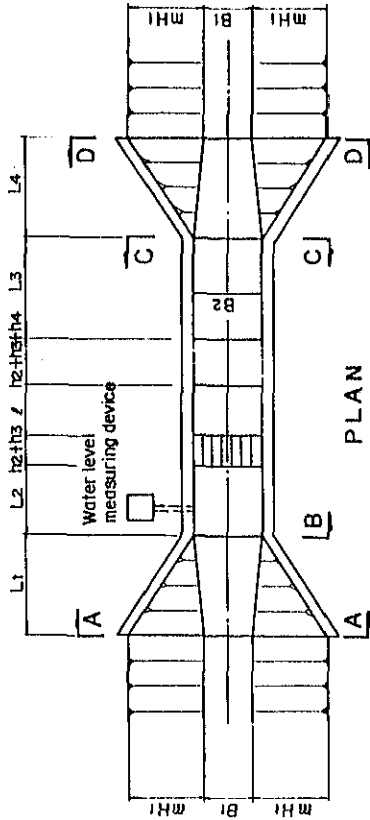


RECTANGULAR SHARP-CRESTED WEIR SECTION C-C

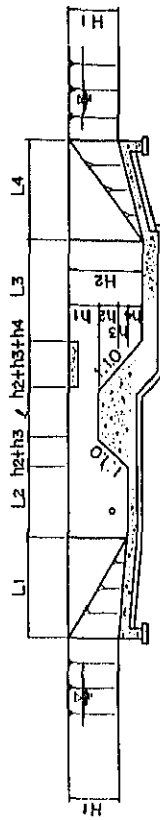


SECTION C-C

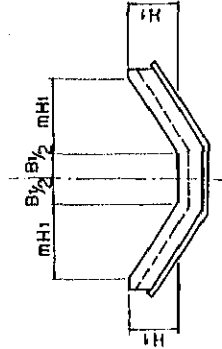
BROAD CRESTED WEIR



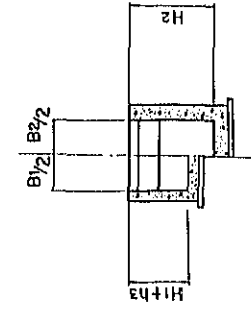
PLAN



PROFILE



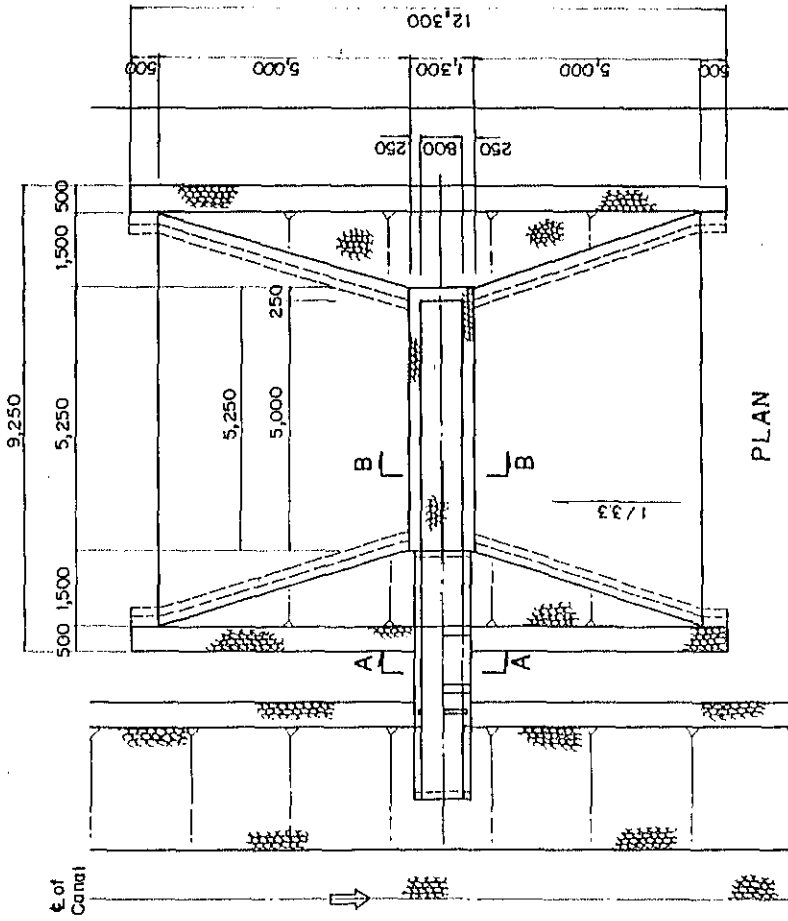
SECTION A-A SECTION D-D



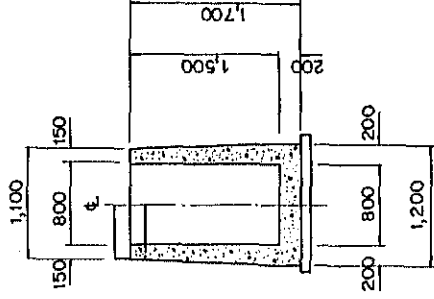
SECTION B-B SECTION C-C

REPUBLIC OF KENYA	DWG. NO. 309
NATIONAL IRRIGATION BOARD	
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	
TITLE OF DRAWING	
BROAD CRESTED WEIR & RECTANGULAR SHARP-CRESTED WEIR	
JAPAN INTERNATIONAL COOPERATION AGENCY	TOKYO JAPAN

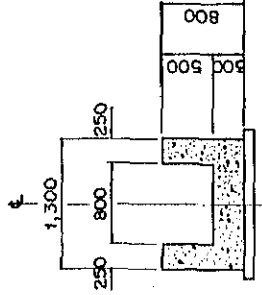
CATTLE BASIN



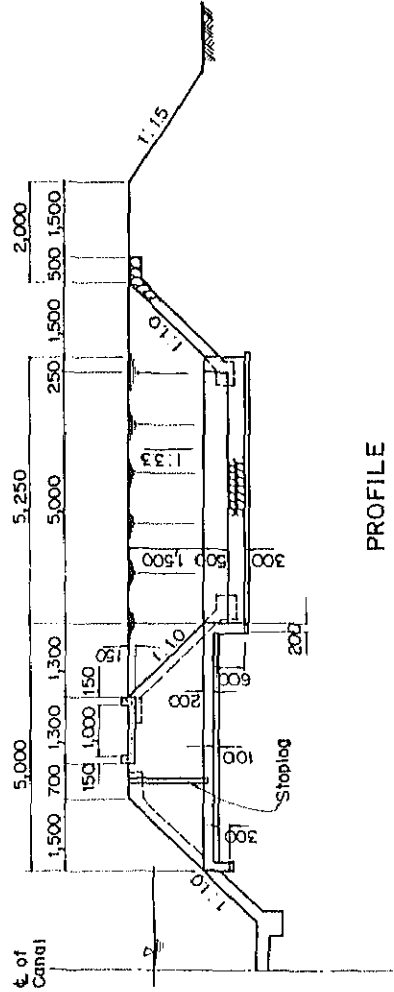
PLAN



SECTION A-A



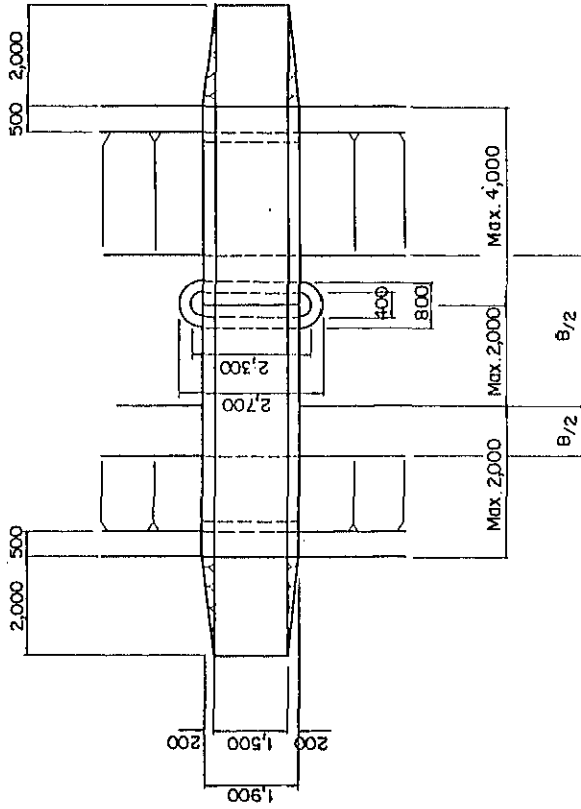
SECTION B-B



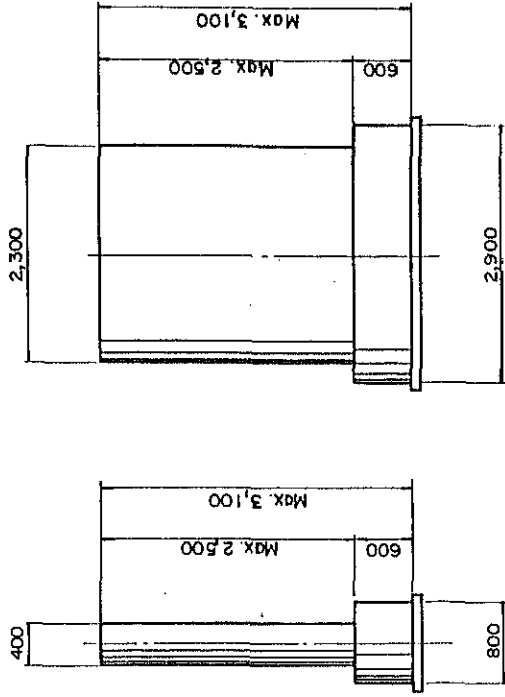
PROFILE

REPUBLIC OF KENYA	JAPAN INTERNATIONAL COOPERATION AGENCY
NATIONAL IRRIGATION BOARD	
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	DWG. NO. 311
TITLE OF DRAWING	
CATTLE BASIN	TOKYO JAPAN

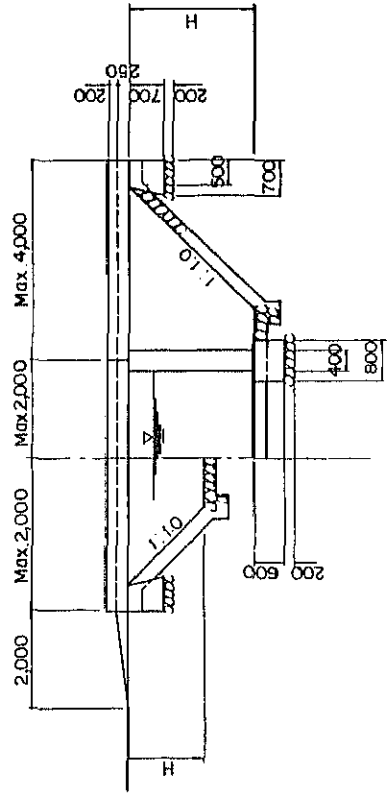
FOOT BRIDGE



PLAN



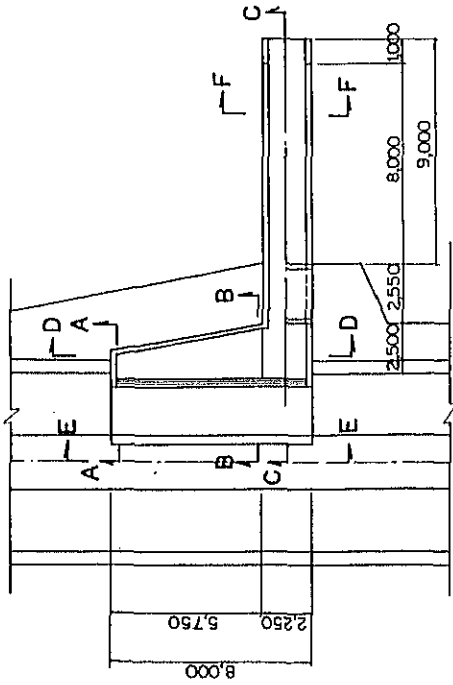
CENTER PIER



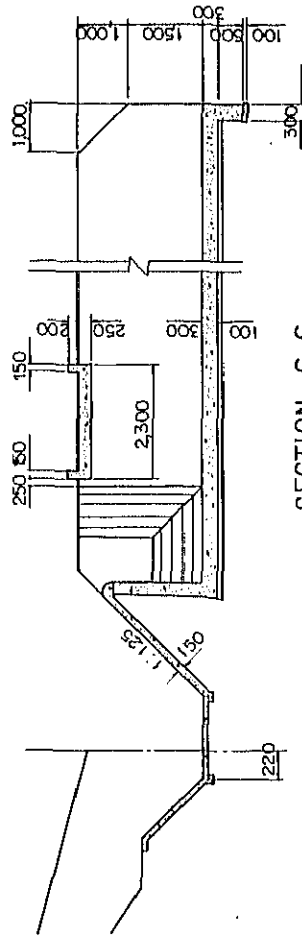
PROFILE

REPUBLIC OF KENYA	DWG. NO.	312
NATIONAL IRRIGATION BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY	TOKYO JAPAN
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	TITLE OF DRAWING	
FOOT BRIDGE		

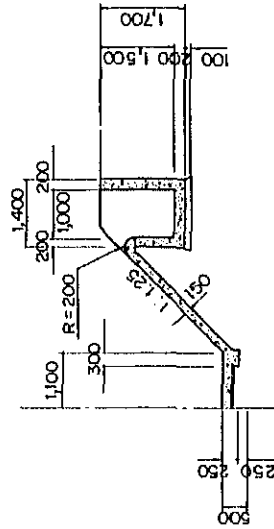
SPILLWAY (TYPE-A)



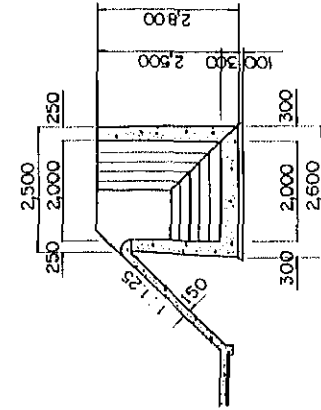
PLAN



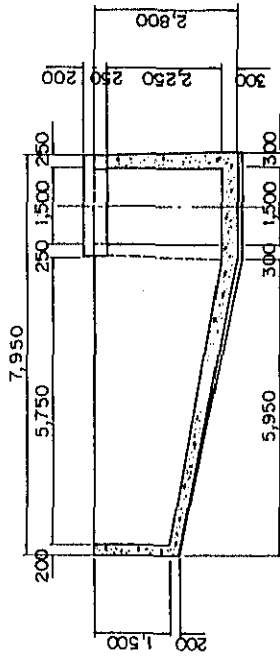
SECTION C-C



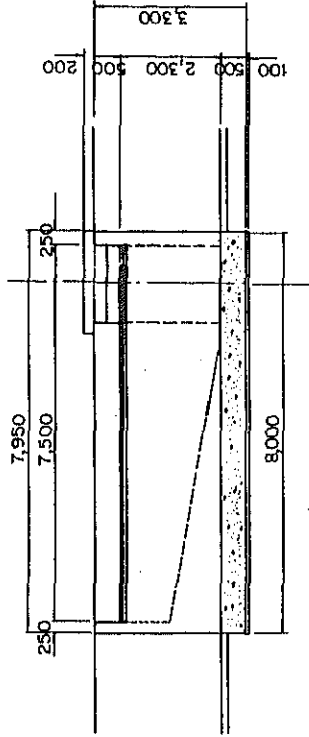
SECTION A-A



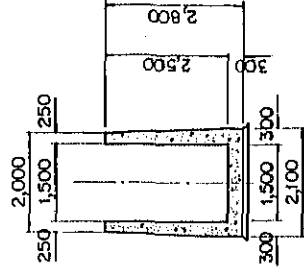
SECTION B-B



SECTION D-D



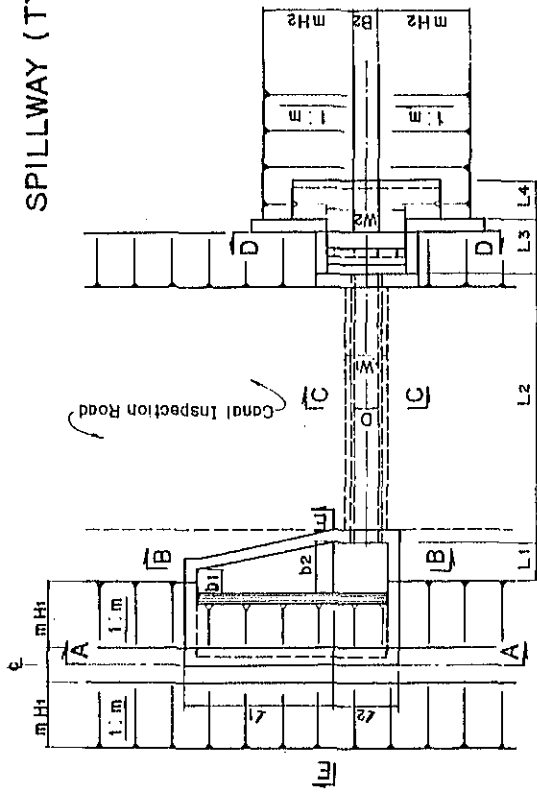
SECTION E-E



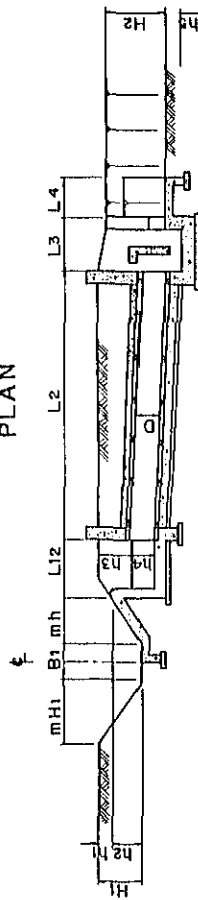
SECTION F-F

REPUBLIC OF KENYA	DRAWING NO. 313
NATIONAL IRRIGATION BOARD	
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN
TITLE OF DRAWING SPILLWAY (TYPE-A)	

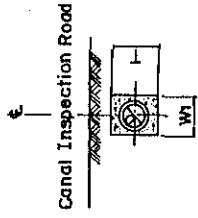
SPILLWAY (TYPE - B & C)



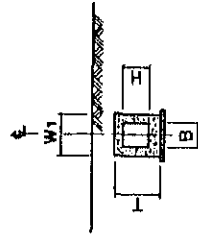
PLAN



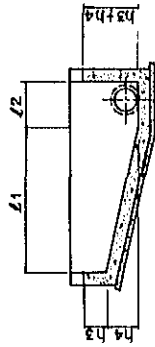
PROFILE



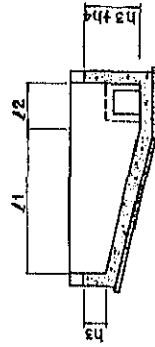
SECTION C-C
(TYPE - C)



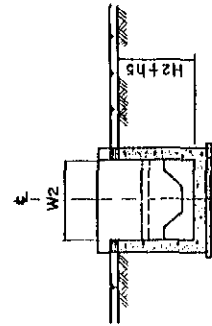
SECTION C-C
(TYPE - B)



SECTION B-B
(TYPE - C)



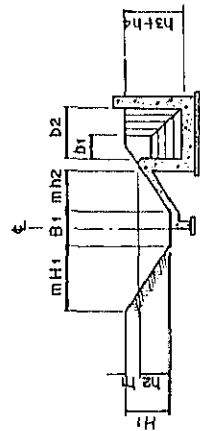
SECTION B-B
(TYPE - B)



SECTION D-D
(TYPE - B & C)



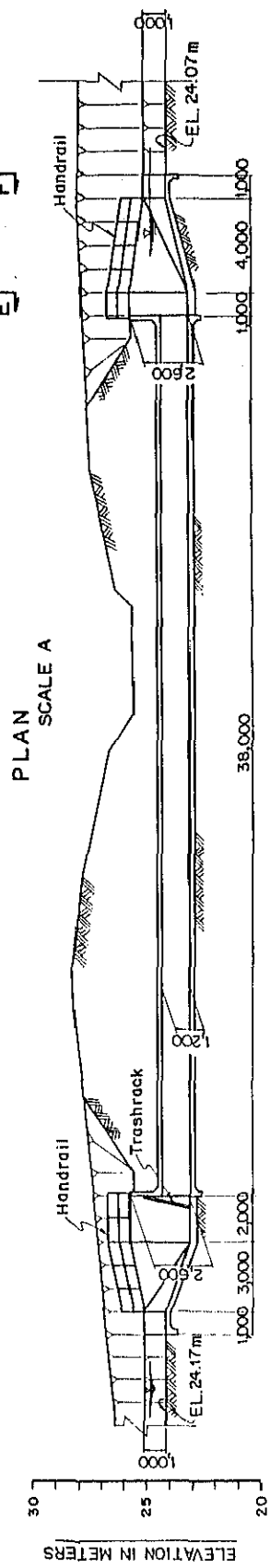
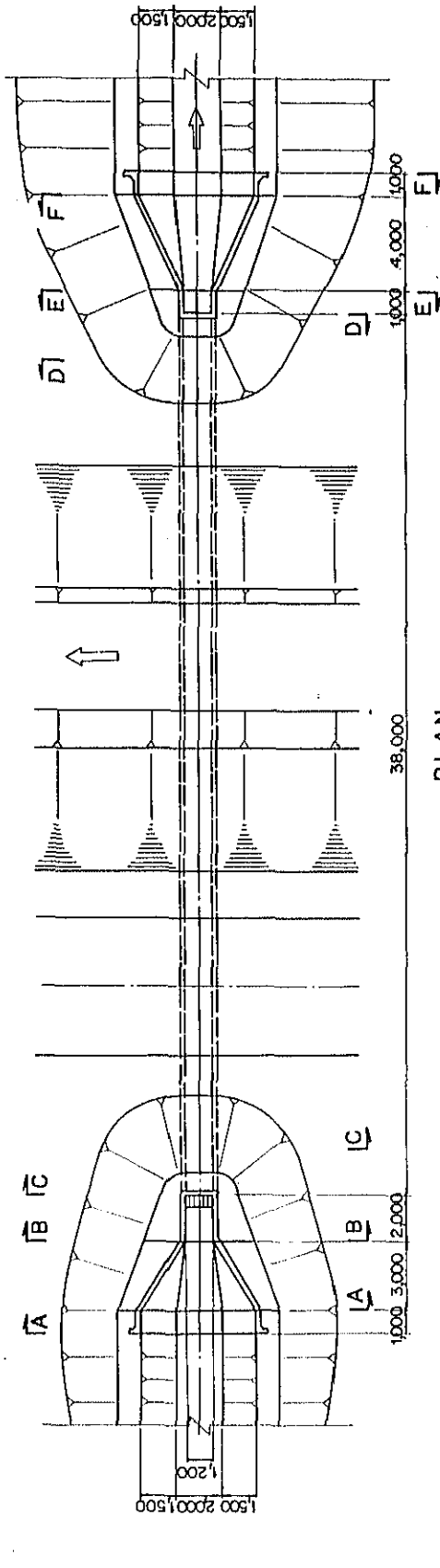
SECTION A-A (TYPE - B & C)



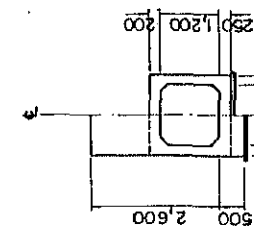
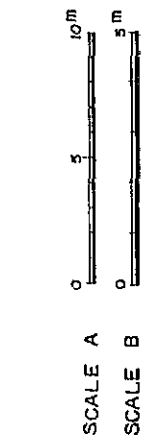
SECTION E-E (TYPE B & C)

REPUBLIC OF KENYA	JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO, JAPAN
NATIONAL IRRIGATION BOARD	
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	DWG. NO. 31.4
TITLE OF DRAWING SPILLWAY (TYPE B&C)	

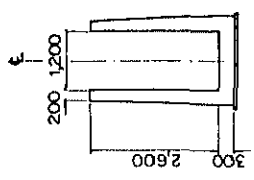
SYPHON



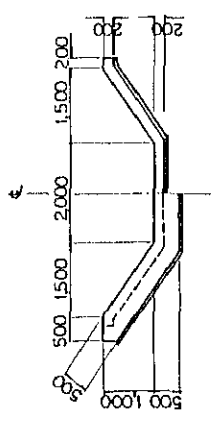
PROFILE SCALE A



SECTIONS C-C & D-D SCALE B



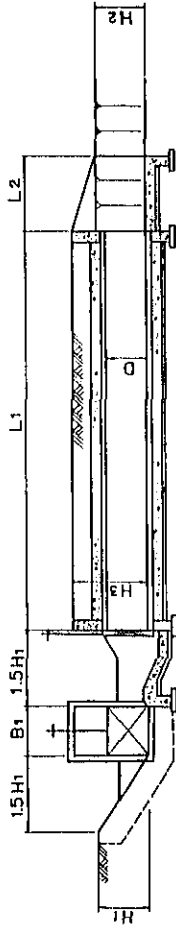
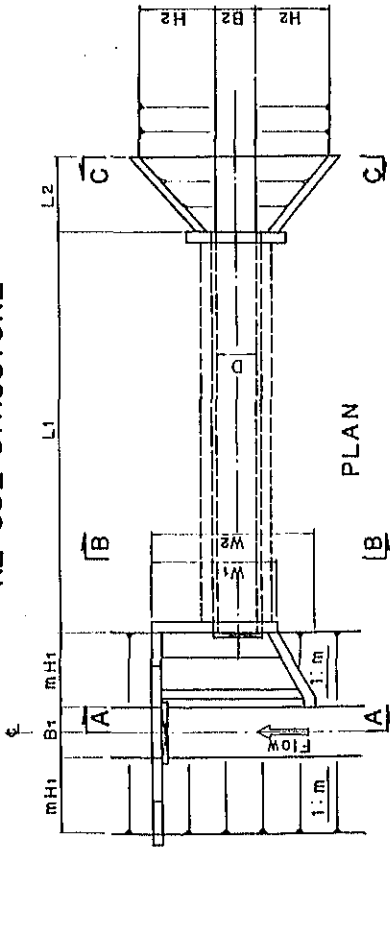
SECTIONS B-B & E-E SCALE B



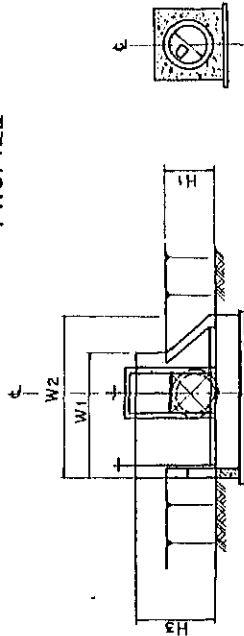
SECTIONS A-A & F-F SCALE B

REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING
SYPHON (IN THIBA BRANCH CANAL-V)
JAPAN INTERNATIONAL COOPERATION AGENCY
DWG. NO. 315
TOKYO JAPAN

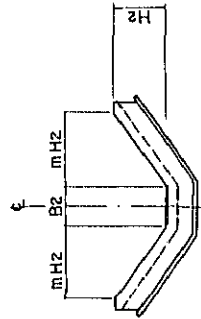
RE-USE STRUCTURE



PROFILE

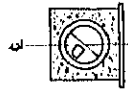


SECTION A-A

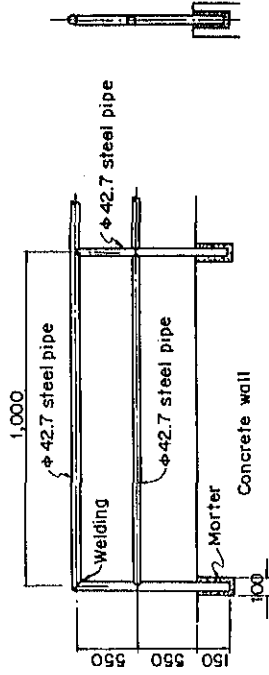


SECTION C-C

SECTION B-B



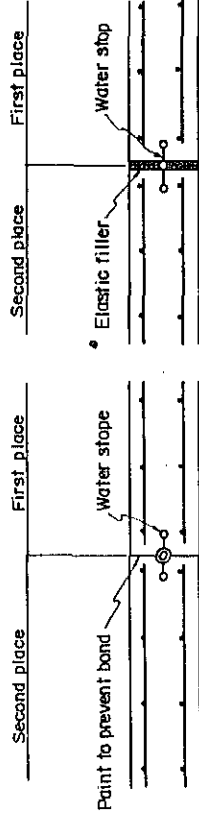
HAND RAIL



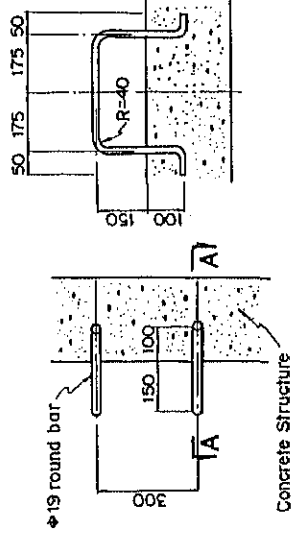
PROFILE

SECTION

CONTRACTION JOINT EXPANSION JOINT



STEP



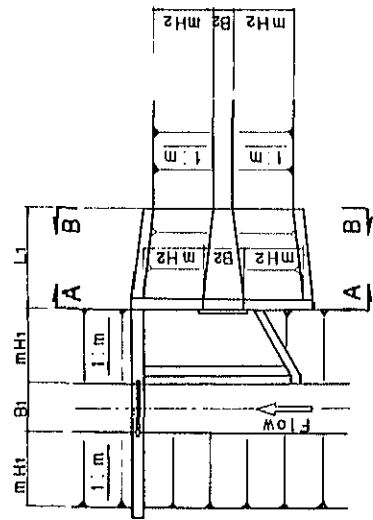
SECTION

SECTION A-A

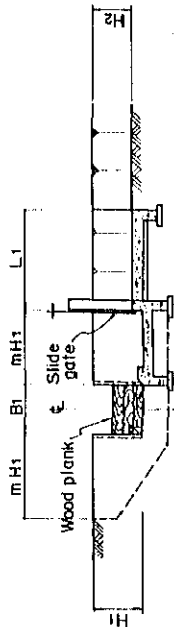
REPUBLIC OF KENYA	NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT	
TITLE OF DRAWING	RE-USE STRUCTURE & MISCELLANEOUS WORKS
JAPAN INTERNATIONAL COOPERATION AGENCY	DWG. NO. 316
TOKYO JAPAN	

ON - FARM FACILITIES

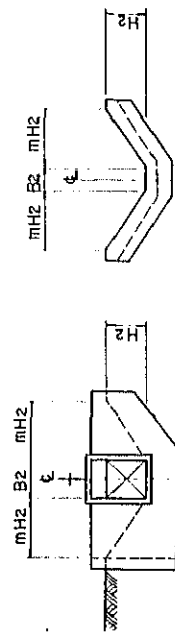
OFFTAKE/CHECK



PLAN



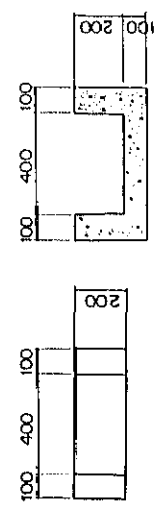
PROFILE



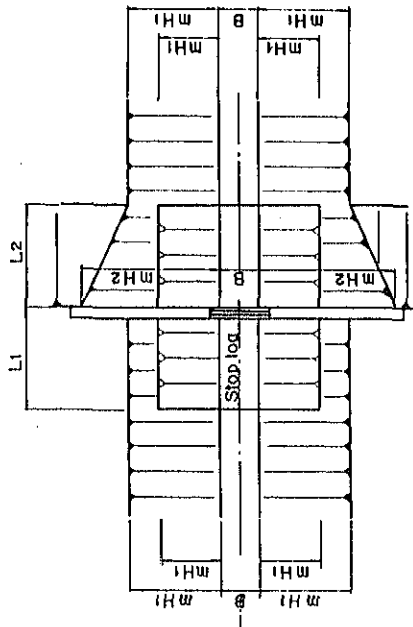
SECTION A-A

SECTION B-B

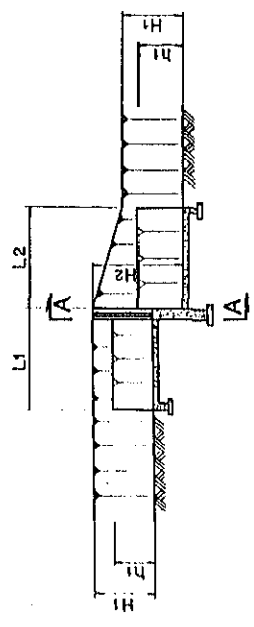
FIELD INLET



CHECK/DROP

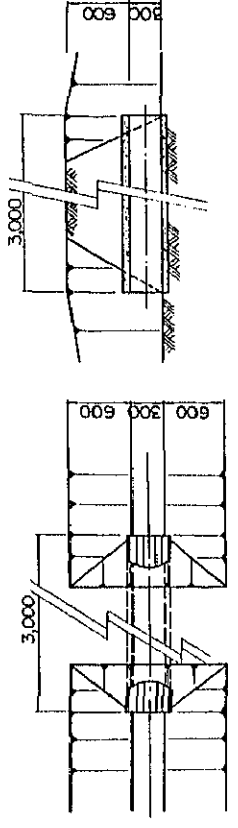


PLAN



PROFILE

FARM APPROACH



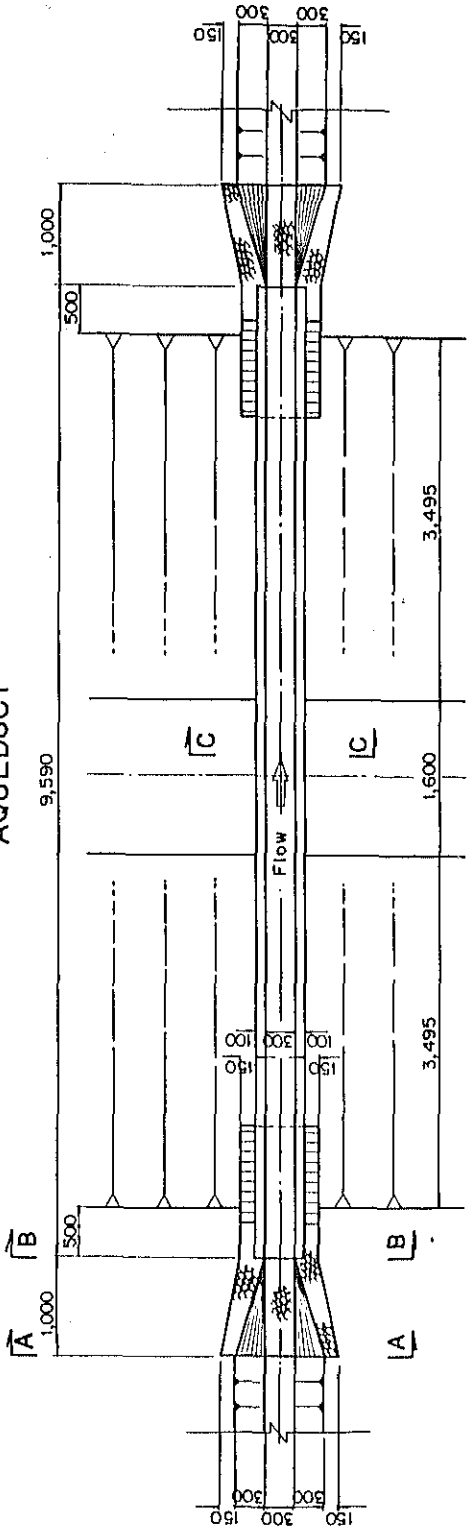
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT

TITLE OF DRAWING
 ON-FARM FACILITIES (ON PLOT FARM)

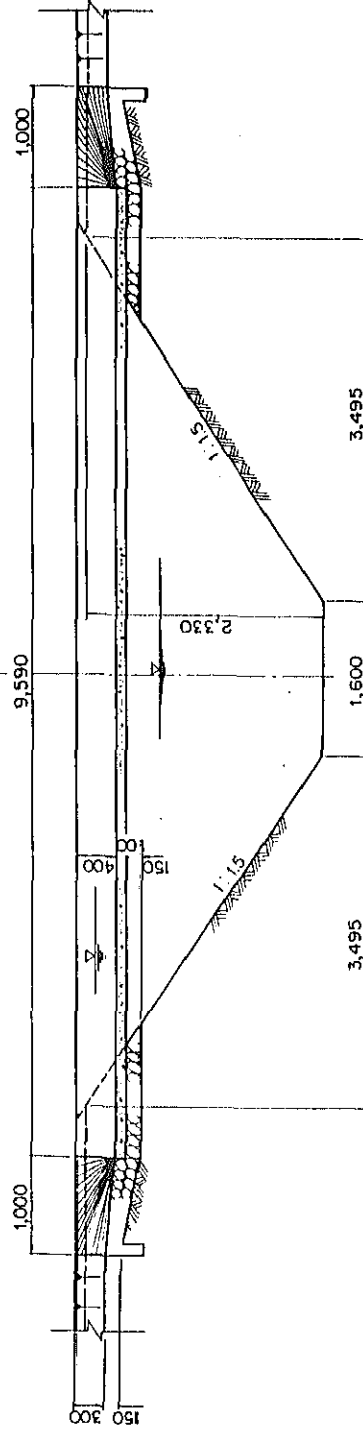
JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN

DWG. NO.
 317

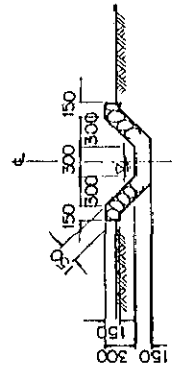
AQUEDUCT



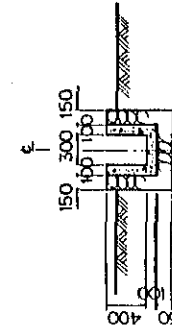
PLAN



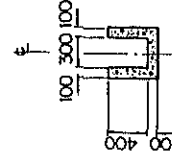
PROFILE



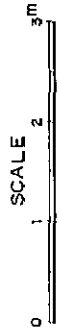
SECTION A-A



SECTION B-B



SECTION C-C

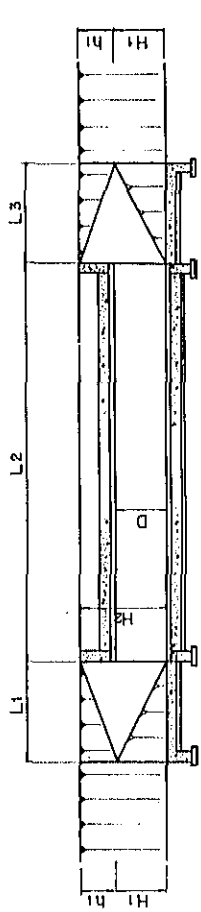


REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING AQUEDUCT (ON PILOT FARM)
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN
DMC. NO. 318

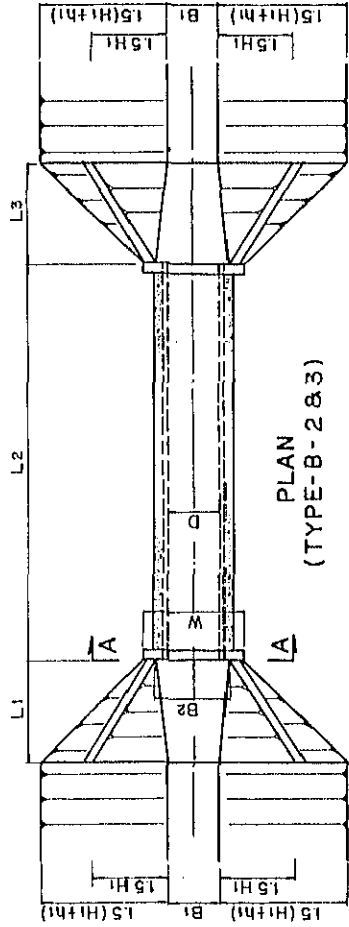
DRAINAGE CULVERT (TYPE-B)

DRAINAGE CULVERT (TYPE-A)

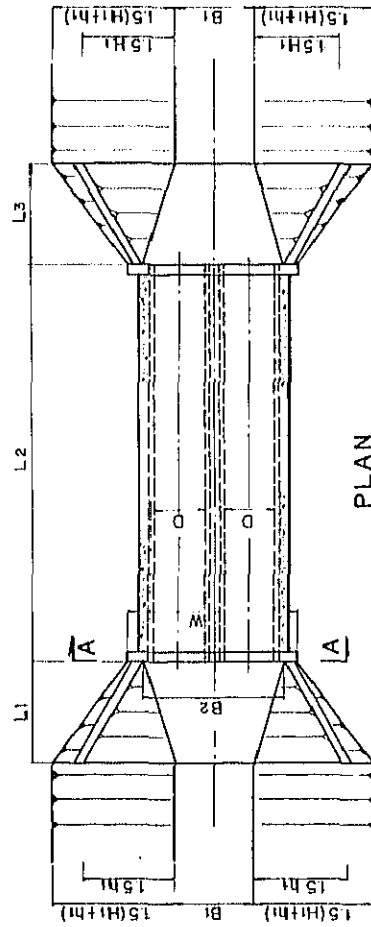
PLATE NO. 36



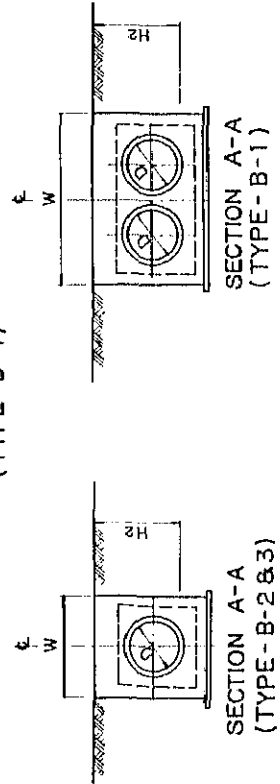
PROFILE



PLAN
(TYPE-B-2&3)

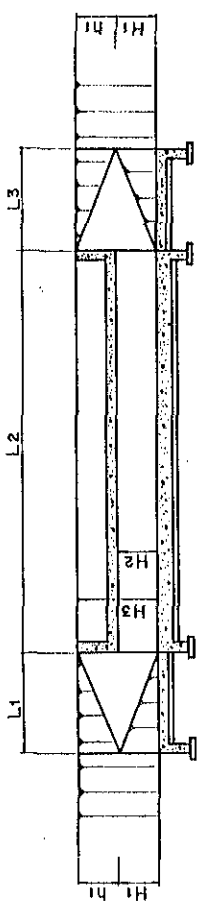


PLAN
(TYPE-B-1)

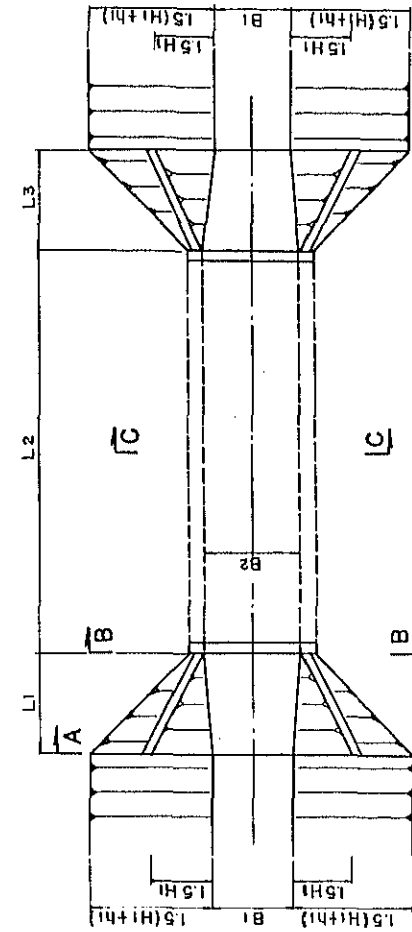


SECTION A-A
(TYPE-B-2&3)

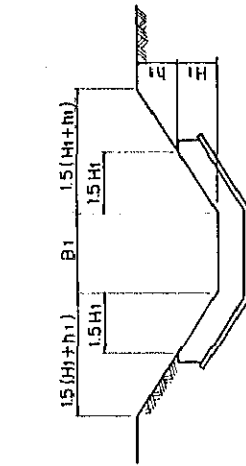
SECTION B-B
(TYPE-B-1)



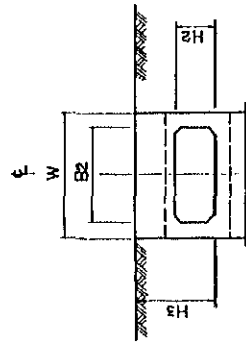
PROFILE



PLAN



SECTION A-A

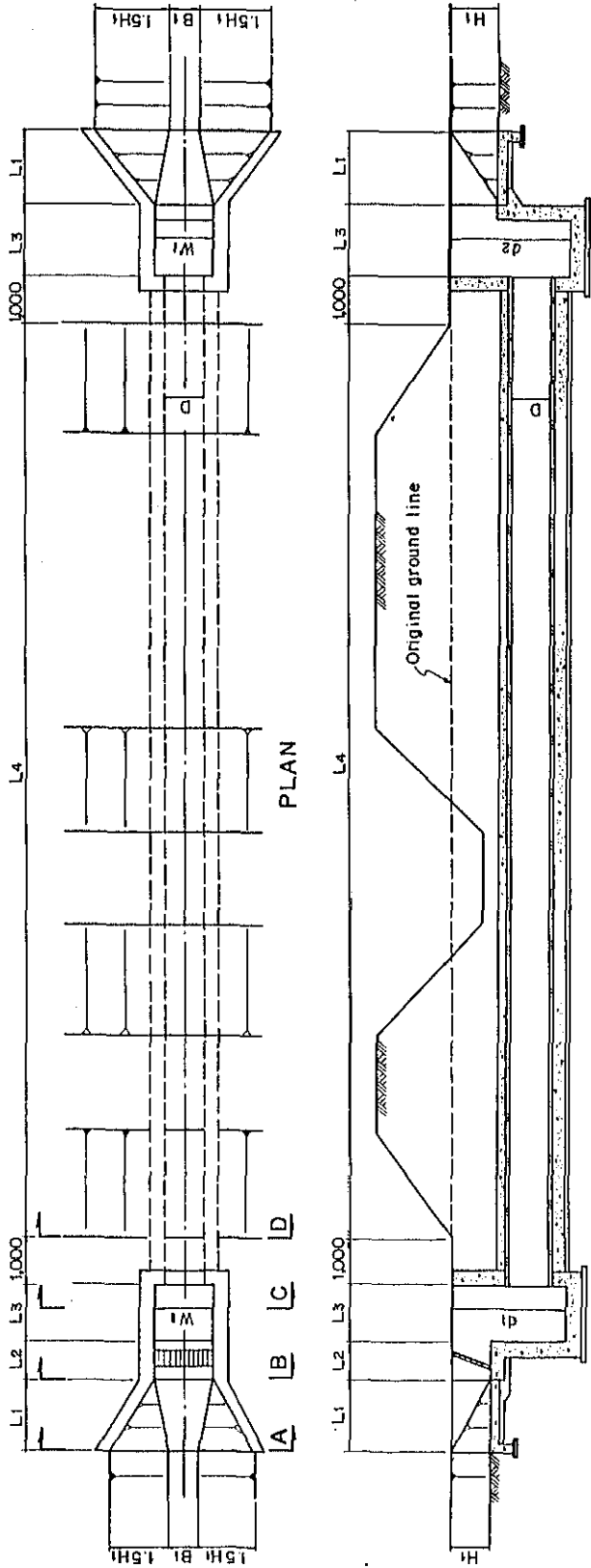


SECTION B-B

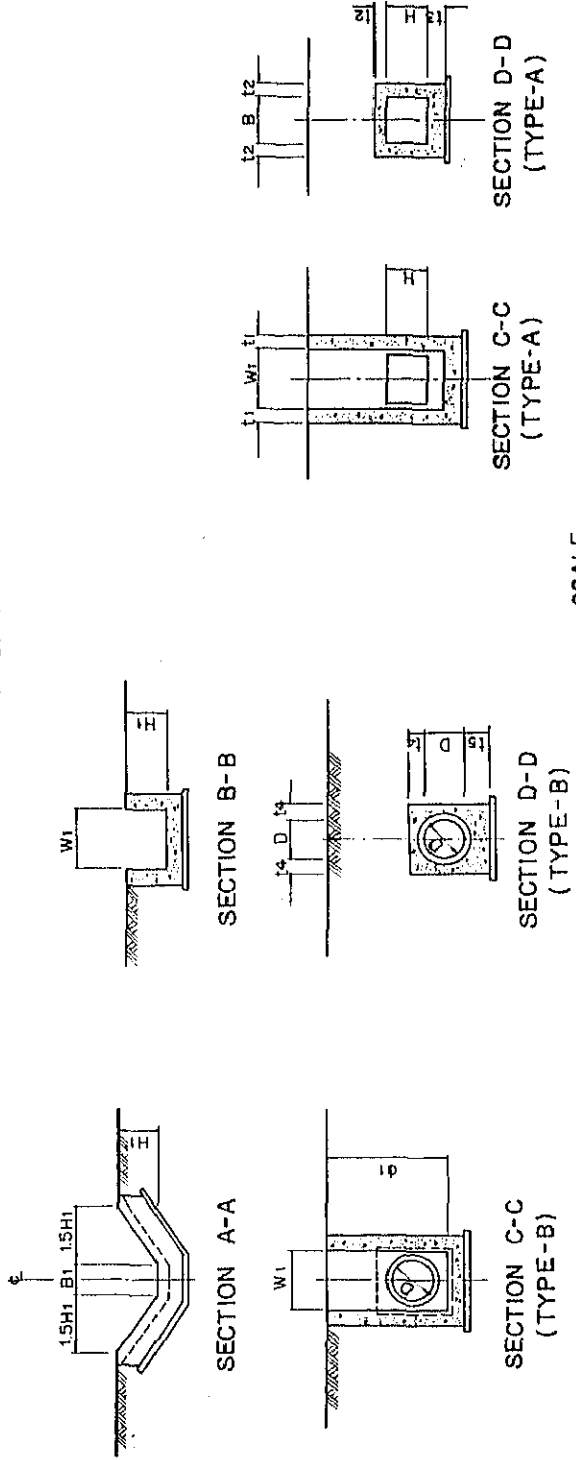
SCALE 0 1 2 3 4 5m

REPUBLIC OF KENYA	JAPAN INTERNATIONAL COOPERATION AGENCY
NATIONAL IRRIGATION BOARD	TOKYO JAPAN
MWEA IRRIGATION SETTLEMENT SCHEME	DWG. NO. 401
DEVELOPMENT PROJECT	
TITLE OF DRAWING	
DRAINAGE CULVERT (TYPE-A&B)	

DRAINAGE SYPHON

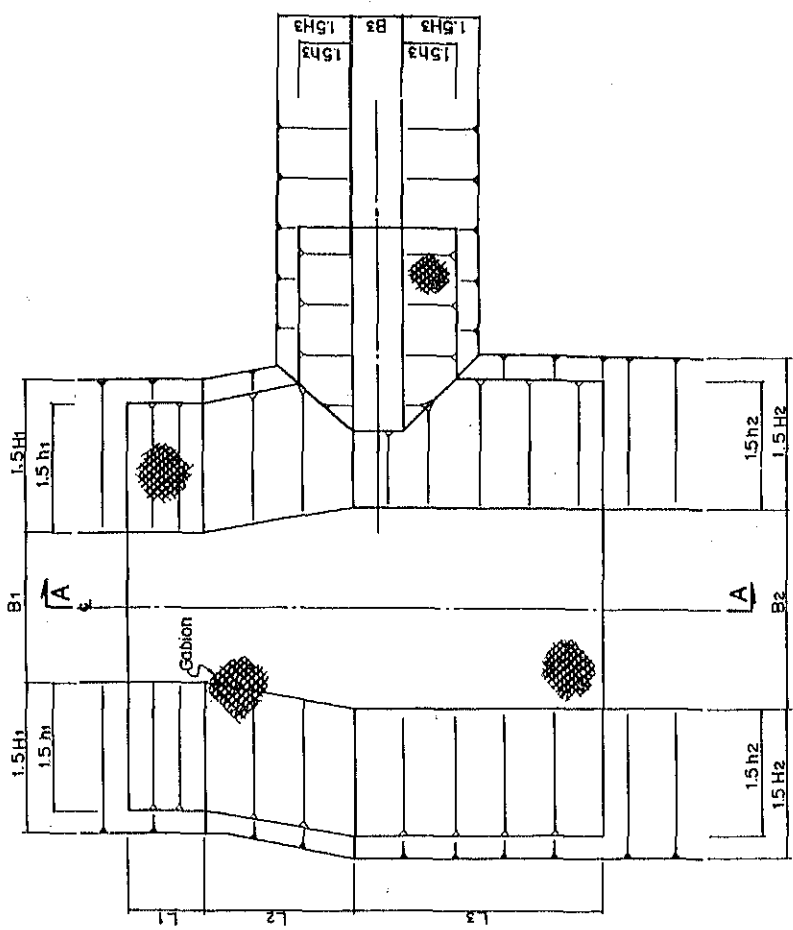


PROFILE

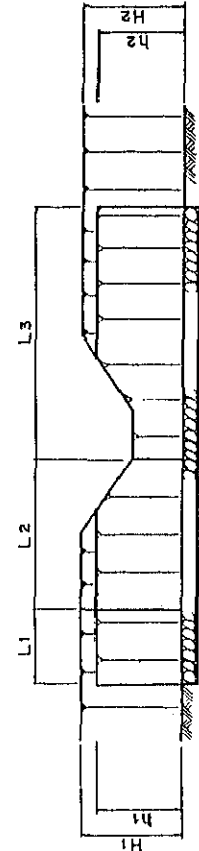


REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING
DRAINAGE SYPHON
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN
DWG. NO. 402

DRAINAGE JUNCTION



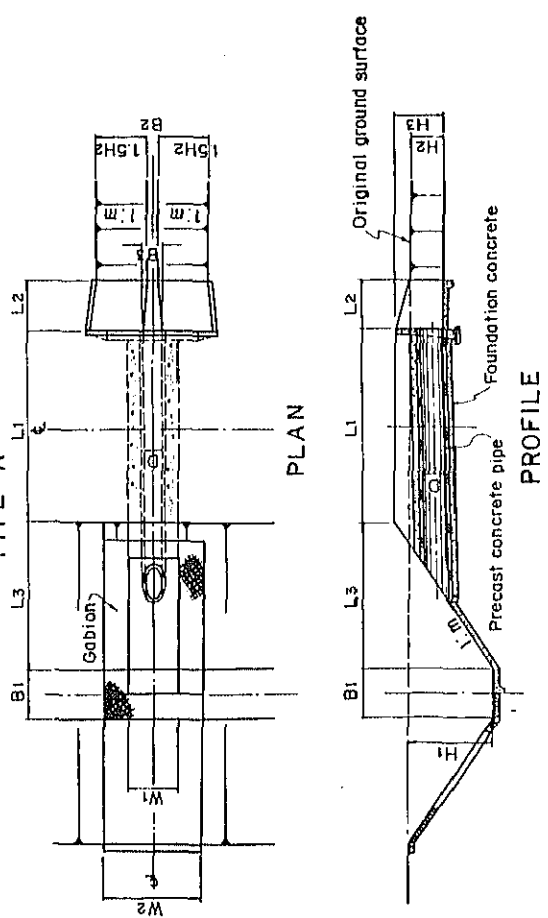
PLAN



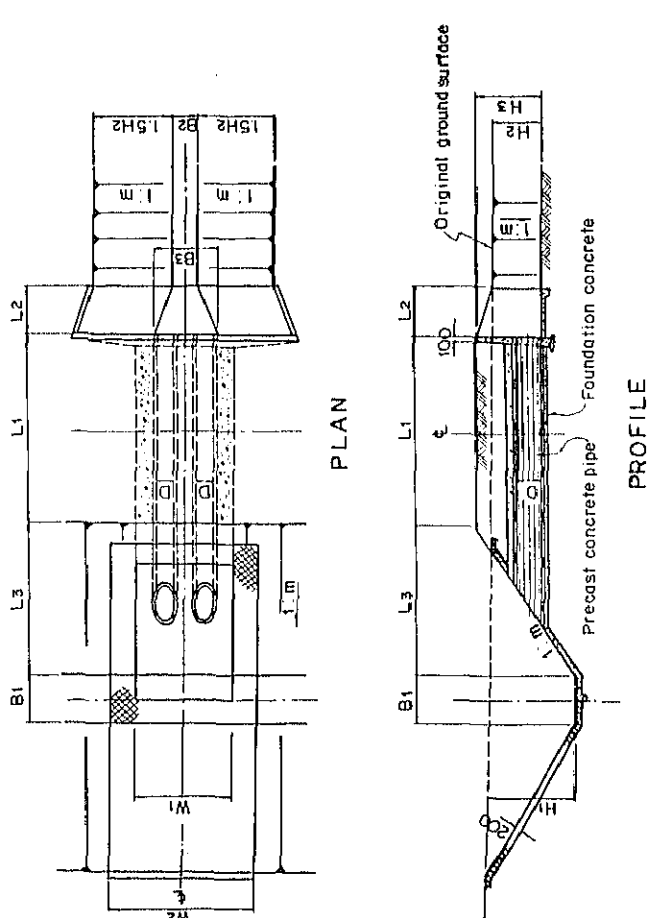
SECTION A-A

DRAINAGE INLET

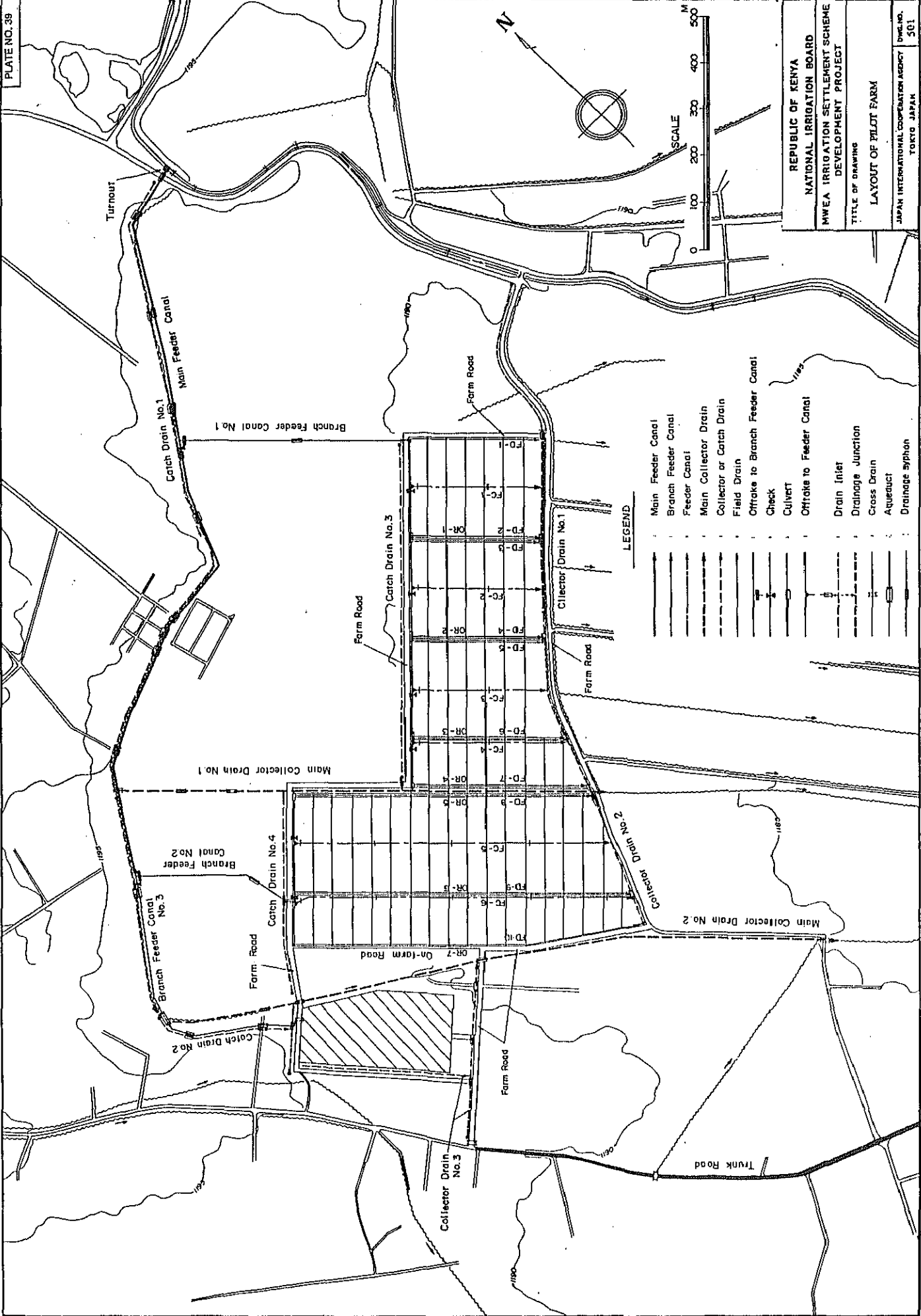
TYPE - A



TYPE - B



REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME
DEVELOPMENT PROJECT
TITLE OF DRAWING
DRAINAGE INLET & DRAINAGE JUNCTION
JAPAN INTERNATIONAL COOPERATION AGENCY
DWG. NO.
403
TOKYO - JAPAN



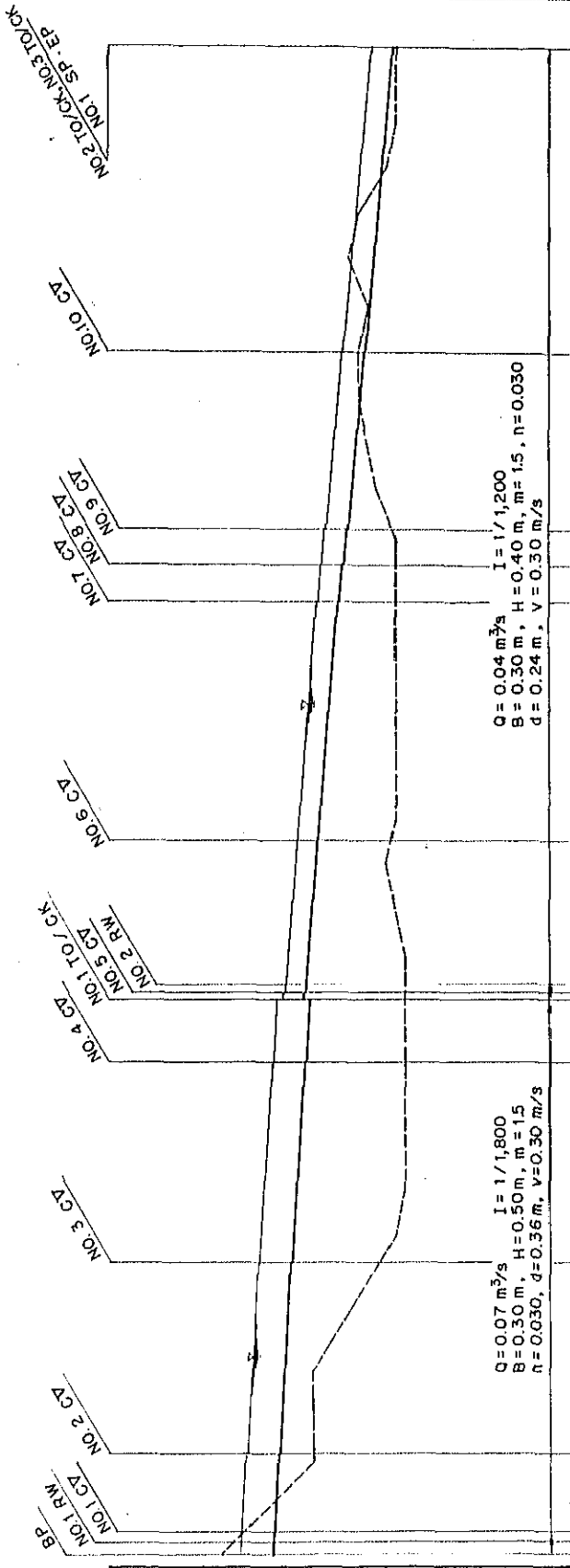
LEGEND

	Main Feeder Canal
	Branch Feeder Canal
	Feeder Canal
	Main Collector Drain
	Collector or Catch Drain
	Field Drain
	Offtake to Branch Feeder Canal
	Check
	Culvert
	Offtake to Feeder Canal
	Drain Inlet
	Drainage Junction
	Cross Drain
	Aqueduct
	Drainage siphon

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 NWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT

TITLE OF DRAWING
 LAYOUT OF PILOT FARM

JAPAN INTERNATIONAL COOPERATION AGENCY
 Dwg. No. 501
 TOKYO JAPAN



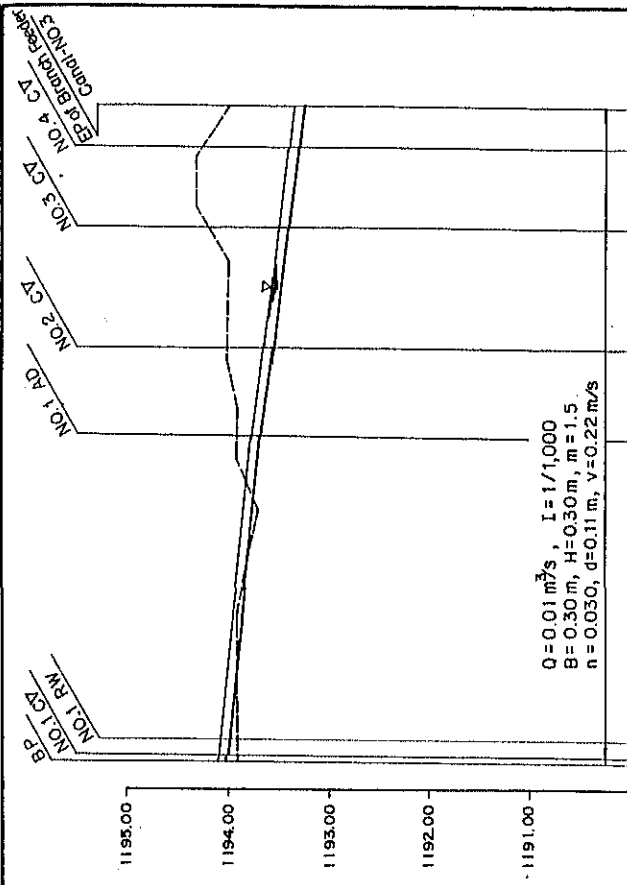
$Q = 0.04 \text{ m}^3/\text{s}$ $I = 1/1,200$
 $B = 0.30 \text{ m}$, $H = 0.40 \text{ m}$, $m = 1.5$, $n = 0.030$
 $d = 0.24 \text{ m}$, $v = 0.30 \text{ m/s}$

$Q = 0.07 \text{ m}^3/\text{s}$ $I = 1/1,800$
 $B = 0.30 \text{ m}$, $H = 0.50 \text{ m}$, $m = 1.5$
 $n = 0.030$, $d = 0.36 \text{ m}$, $v = 0.30 \text{ m/s}$

CURVE	EXISTING CONDITION			PROPOSED CONDITION		
	STATION NO.	REDUCED DISTANCE	DISTANCE	ORIGINAL GROUND SURFACE ELEVATION	CANAL BASE ELEVATION	WATER SURFACE ELEVATION
NO. 0	0.0	0.0	0.0	1195.74	1195.74	1195.74
NO. 1	25.0	25.0	25.0	1195.80	1195.80	1195.80
NO. 2	100.0	100.0	100.0	1195.85	1195.85	1195.85
NO. 3	300.0	300.0	300.0	1195.90	1195.90	1195.90
NO. 4	400.0	400.0	400.0	1195.95	1195.95	1195.95
NO. 5	500.0	500.0	500.0	1196.00	1196.00	1196.00
NO. 6	600.0	600.0	600.0	1196.05	1196.05	1196.05
NO. 7	700.0	700.0	700.0	1196.10	1196.10	1196.10
NO. 8	800.0	800.0	800.0	1196.15	1196.15	1196.15
NO. 9	900.0	900.0	900.0	1196.20	1196.20	1196.20
NO. 10	1000.0	1000.0	1000.0	1196.25	1196.25	1196.25
NO. 11	1072.5	1072.5	1072.5	1196.30	1196.30	1196.30
NO. 12	1200.0	1200.0	1200.0	1196.35	1196.35	1196.35
NO. 13	1300.0	1300.0	1300.0	1196.40	1196.40	1196.40
NO. 14	1400.0	1400.0	1400.0	1196.45	1196.45	1196.45
NO. 15	1500.0	1500.0	1500.0	1196.50	1196.50	1196.50
NO. 16	1600.0	1600.0	1600.0	1196.55	1196.55	1196.55
NO. 17	1630.0	1630.0	1630.0	1196.60	1196.60	1196.60

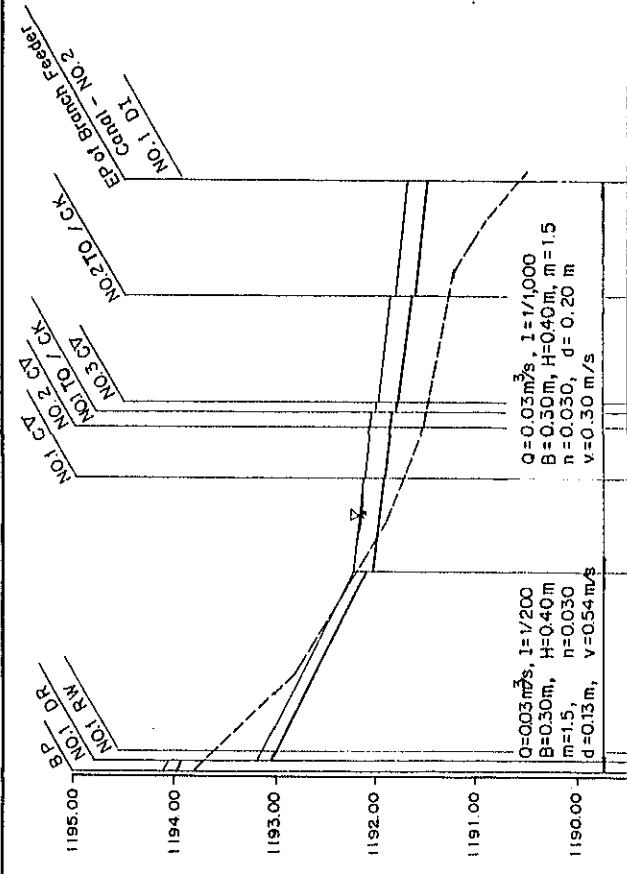
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF MAIN FEEDER CANAL
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN
 DWG. NO.
 502

PLATE NO. 42



$Q = 0.01 \text{ m}^3/\text{s}$, $I = 1/1,000$
 $B = 0.30 \text{ m}$, $H = 0.30 \text{ m}$, $m = 1.5$
 $n = 0.030$, $d = 0.11 \text{ m}$, $v = 0.22 \text{ m/s}$

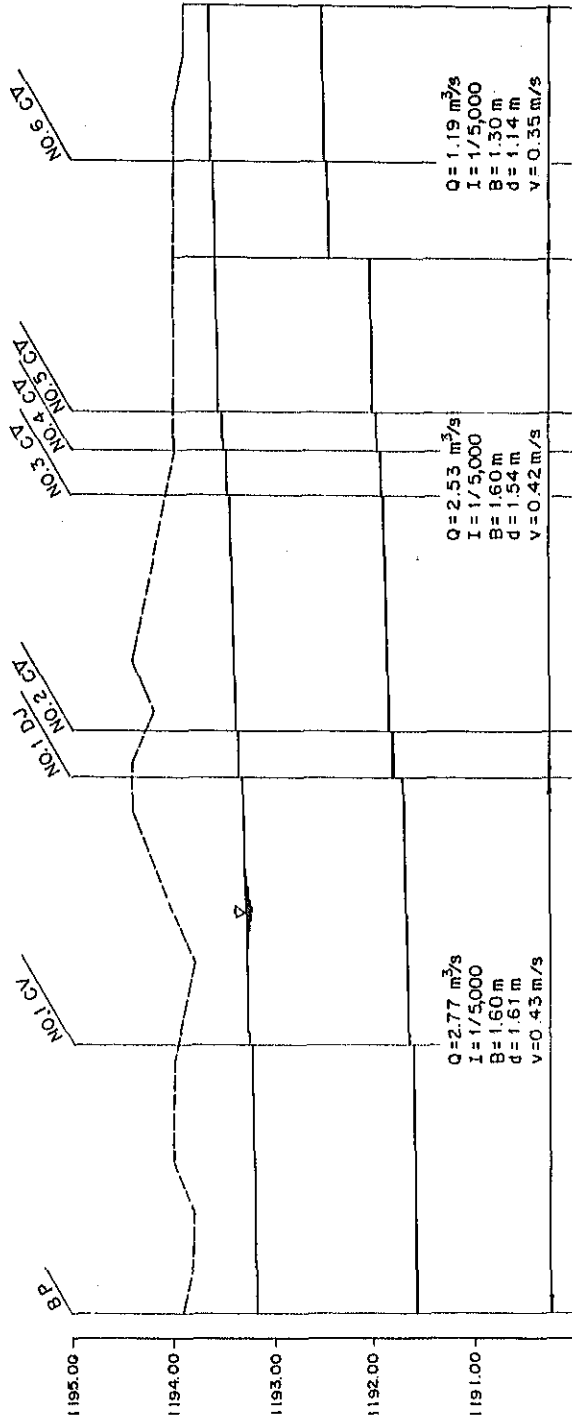
STATION	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	ORIGINAL GROUND SURFACE ELEVATION	DISTANCE	REDUCED DISTANCE	STATION NO.	CURVE
0+00	1194.30	1194.09	1194.11	1193.90	5.0	5.0	NO. 1	50.0
0+50	1193.90	1193.99	1193.88	1193.90	95.0	100.0	NO. 2	50.0
1+00	1193.90	1193.79	1193.69	1193.70	100.0	200.0	NO. 3	50.0
1+50	1193.90	1193.69	1193.59	1193.70	100.0	320.0	NO. 4	50.0
2+00	1193.90	1193.59	1193.49	1193.90	100.0	410.0	NO. 5	50.0
2+50	1193.90	1193.49	1193.39	1194.00	100.0	530.0	NO. 6	50.0
3+00	1193.90	1193.39	1193.29	1194.00	100.0	610.0	NO. 7	50.0
3+50	1193.90	1193.29	1193.19	1194.00	100.0	650.0	NO. 8	50.0
4+00	1193.90	1193.19	1193.09	1194.00	100.0	700.0	NO. 9	50.0
4+50	1193.90	1193.09	1192.99	1194.00	100.0	750.0	NO. 10	50.0
5+00	1193.90	1192.99	1192.89	1194.00	100.0	800.0	NO. 11	50.0



$Q = 0.03 \text{ m}^3/\text{s}$, $I = 1/1,000$
 $B = 0.30 \text{ m}$, $H = 0.40 \text{ m}$, $m = 1.5$
 $n = 0.030$, $d = 0.20 \text{ m}$
 $v = 0.30 \text{ m/s}$

STATION	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	ORIGINAL GROUND SURFACE ELEVATION	DISTANCE	REDUCED DISTANCE	STATION NO.	CURVE
0+00	1194.30	1194.09	1194.11	1193.90	10.0	10.0	NO. 1	50.0
0+50	1193.90	1193.99	1193.88	1193.90	95.0	95.0	NO. 2	50.0
1+00	1193.90	1193.79	1193.69	1193.70	100.0	100.0	NO. 3	50.0
1+50	1193.90	1193.69	1193.59	1193.70	100.0	130.0	NO. 4	50.0
2+00	1193.90	1193.59	1193.49	1193.90	100.0	150.0	NO. 5	50.0
2+50	1193.90	1193.49	1193.39	1194.00	100.0	170.0	NO. 6	50.0
3+00	1193.90	1193.39	1193.29	1194.00	100.0	190.0	NO. 7	50.0
3+50	1193.90	1193.29	1193.19	1194.00	100.0	210.0	NO. 8	50.0
4+00	1193.90	1193.19	1193.09	1194.00	100.0	230.0	NO. 9	50.0
4+50	1193.90	1193.09	1192.99	1194.00	100.0	250.0	NO. 10	50.0
5+00	1193.90	1192.99	1192.89	1194.00	100.0	270.0	NO. 11	50.0

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF BRANCH FEEDER
 CANAL NO. 2 AND NO. 3
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO, JAPAN
 DWG. NO. 504

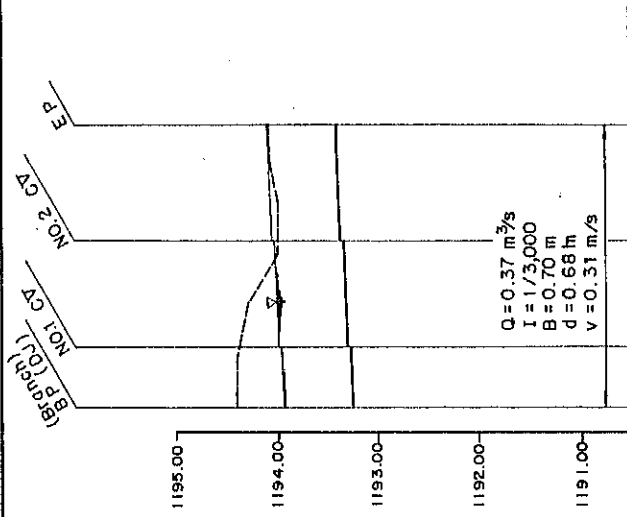


EMBAKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	ORIGINAL GROUND SURFACE ELEVATION	DISTANCE	REDUCED DISTANCE	STATION NO.	CURVE
1193.18	1193.90	1191.57	1193.80	0.0		B.P.	
	1193.80	1191.59	1193.80	100.0		NO. 1	
	1194.00	1191.61	1194.00	200.0		NO. 2	
	1194.20	1191.70	1194.40	350.0		NO. 5	
	1194.40	1191.85	1194.40	450.0		NO. 6	
	1194.20	1191.87	1194.30	1000.0		NO. 7	
	1194.10	1191.89	1194.10	1000.0		NO. 8	
	1194.00	1191.93	1194.00	450.0		NO. 9	
	1194.00	1192.01	1194.00	37.50		NO. 9	
	1194.00	1192.04	1194.00	1000.0		NO. 10	
	1194.00	1192.44	1194.00	500.0		NO. 10	
	1194.00	1192.45	1194.00	500.0		NO. 11	
	1194.00	1192.46	1194.00	450.0		NO. 11	
	1194.00	1192.49	1194.00	450.0		NO. 12	
	1194.00	1192.50	1194.40	55.0		NO. 12	
	1193.90	1192.52	1193.90	100.0		NO. 13	

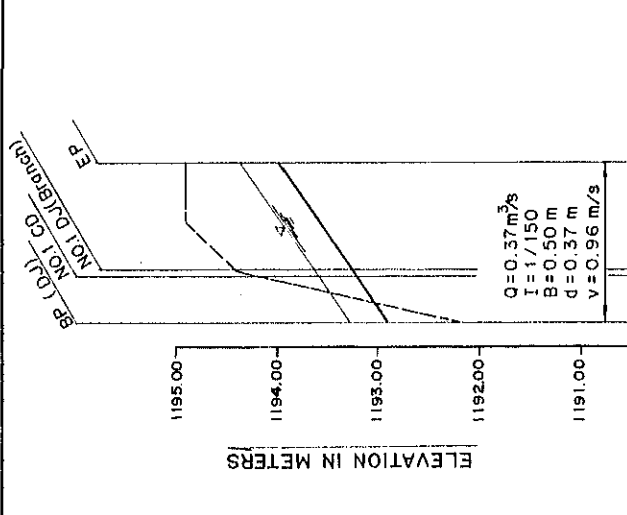
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT

TITLE OF DRAWING
 PROFILE OF CATCH DRAIN NO. 1 (1/2)

JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN
 DWG. NO.
 505

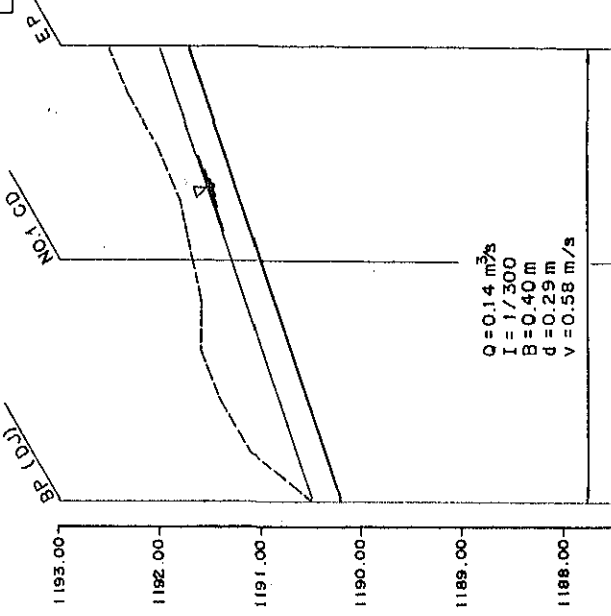


STATION NO.	EMBAKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	ORIGINAL GROUND SURFACE ELEVATION	DISTANCE	REDUCED DISTANCE	CURVE
BP	1193.94	1193.98	1193.98	1193.94	0.0	0.0	
NO. 1	1193.98	1193.98	1193.98	1193.98	60.0	60.0	
NO. 2	1194.02	1194.02	1194.02	1194.02	100.0	100.0	
NO. 3	1194.07	1194.07	1194.07	1194.07	165.0	165.0	
NO. 4	1194.10	1194.10	1194.10	1194.10	200.0	200.0	
EP	1194.10	1194.10	1194.10	1194.10	280.0	280.0	

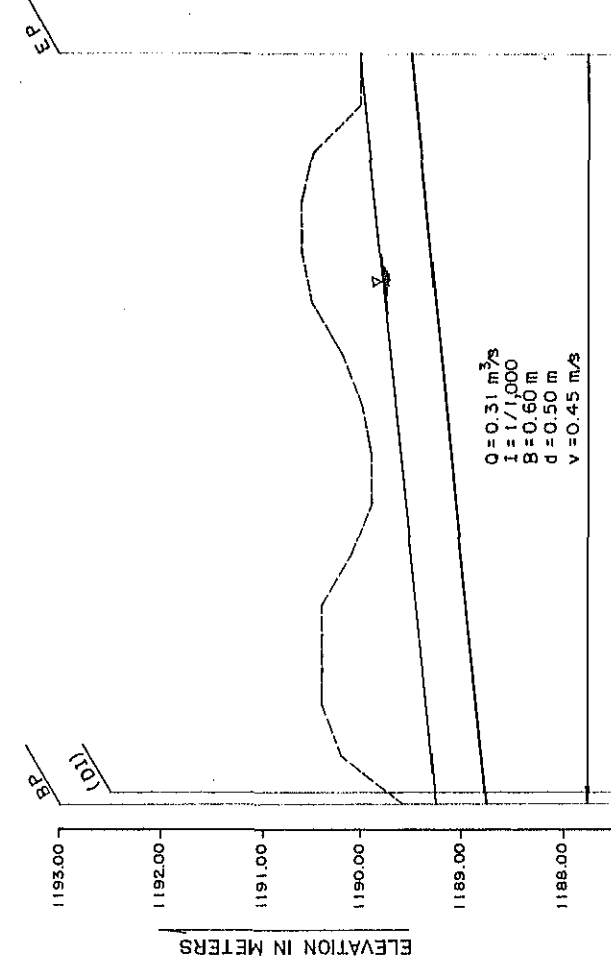


STATION NO.	EMBAKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	ORIGINAL GROUND SURFACE ELEVATION	DISTANCE	REDUCED DISTANCE	CURVE
BP	1193.28	1193.28	1193.28	1193.28	0.0	0.0	
NO. 1	1193.28	1193.28	1193.28	1193.28	47.5	47.5	
NO. 2	1193.58	1193.58	1193.58	1193.58	100.0	100.0	
NO. 3	1194.35	1194.35	1194.35	1194.35	160.0	160.0	
EP	1194.35	1194.35	1194.35	1194.35	200.0	200.0	

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
PROFILE OF CATCH DRAIN NO. 2
 JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. NO. 507
 TOKYO JAPAN

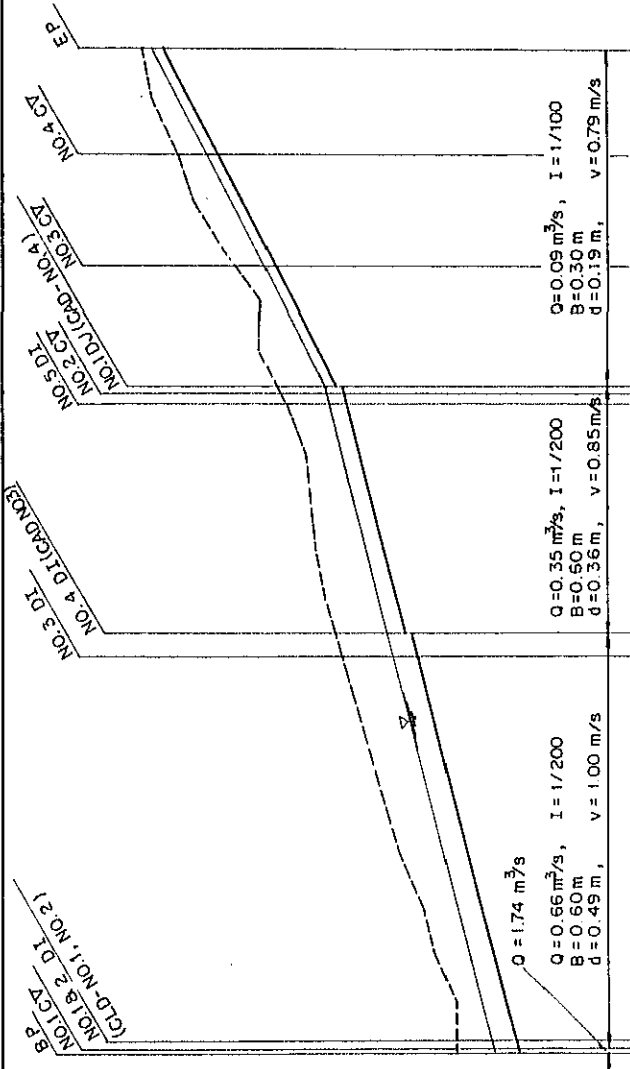


CURVE	STATION NO.	REDUCED DISTANCE	DISTANCE	ORIGINAL GROUND SURFACE ELEVATION	CANAL BASE ELEVATION	WATER SURFACE ELEVATION	EMBANKMENT ELEVATION
BP	0.0	0.0	1190.50	1190.21	1190.50	1190.50	1190.50
	NO. 1	100.0	1191.40	1190.54	1190.83	1191.10	1191.10
	NO. 2	200.0	1191.60	1190.87	1191.16	1191.29	1191.29
	NO. 3	300.0	1191.70	1191.21	1191.50	1191.70	1191.70
	NO. 4	400.0	1192.00	1191.54	1191.83	1192.00	1192.00
	NO. 5	500.0	1192.50	1191.71	1192.00	1192.50	1192.50



CURVE	STATION NO.	REDUCED DISTANCE	DISTANCE	ORIGINAL GROUND SURFACE ELEVATION	CANAL BASE ELEVATION	WATER SURFACE ELEVATION	EMBANKMENT ELEVATION
BP	0.0	0.0	1189.60	1189.26	1189.26	1189.26	1189.26
	NO. 1	100.0	1190.40	1189.85	1189.35	1189.45	1189.45
	NO. 2	200.0	1190.40	1189.95	1189.45	1189.95	1189.95
	NO. 3	300.0	1189.90	1189.05	1189.55	1189.90	1189.90
	NO. 4	400.0	1190.00	1189.15	1189.65	1190.20	1190.20
	NO. 5	500.0	1190.50	1189.25	1189.75	1190.50	1190.50
	NO. 6	600.0	1190.60	1189.35	1189.85	1190.60	1190.60
	NO. 7	700.0	1190.00	1189.45	1189.95	1190.00	1190.00
	NO. 8	800.0	1190.00	1189.50	1190.00	1190.00	1190.00

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF CATCH DRAIN NO.3
 AND NO.4.
 JAPAN INTERNATIONAL COOPERATION AGENCY
 Dwg. NO. 508
 TOKYO, JAPAN

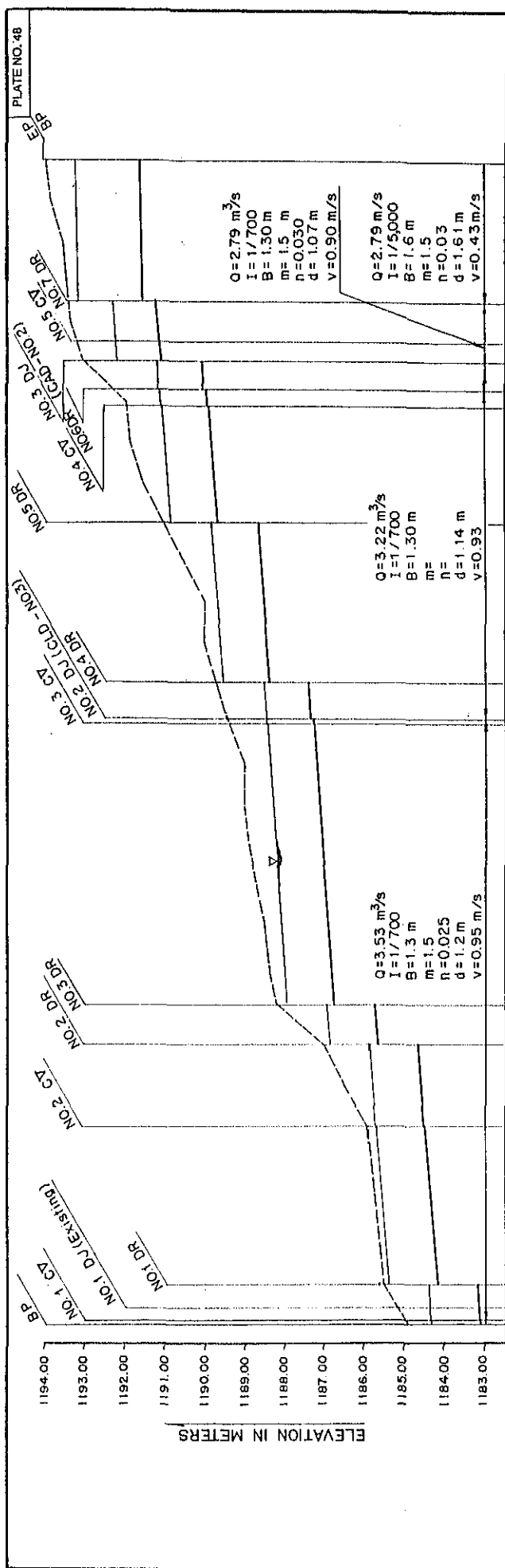


CURVE	EXISTING CONDITION				PROPOSED CONDITION			
	STATION NO.	REDUCED DISTANCE	DISTANCE	ORIGINAL GROUND SURFACE ELEVATION	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	PROPOSED GROUND SURFACE ELEVATION
	+50.0			1187.00				
	NO. 1	100.0	87.5	1187.40	1186.29	1187.70	1186.78	1187.70
	NO. 2	200.0	100.0	1188.10	1186.79	1187.28	1187.28	1187.28
	NO. 3	300.0	100.0	1188.70	1187.29	1187.78	1187.78	1187.78
	+50.0			1189.00				
	NO. 4	400.0	20.0	1189.30	1188.02	1188.48	1188.48	1188.48
	NO. 5	500.0	80.0	1189.60	1188.42	1188.78	1188.78	1188.78
	+50.0			1189.90				
	NO. 6	600.0	100.0	1190.00	1188.92	1189.28	1189.28	1189.28
	+50.0			1190.40				
	NO. 7	700.0	35.0	1190.90	1189.28	1189.52	1189.52	1189.52
	+50.0			1190.90				
	NO. 8	800.0	85.0	1191.60	1190.65	1190.78	1190.78	1190.78
	+50.0			1192.20				
	NO. 9	900.0	95.0	1192.50	1191.78	1192.05	1192.05	1192.05
	+50.0			1193.00				
	NO. 10	1000.0	100.0	1193.20	1192.86	1193.05	1193.05	1193.05

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT

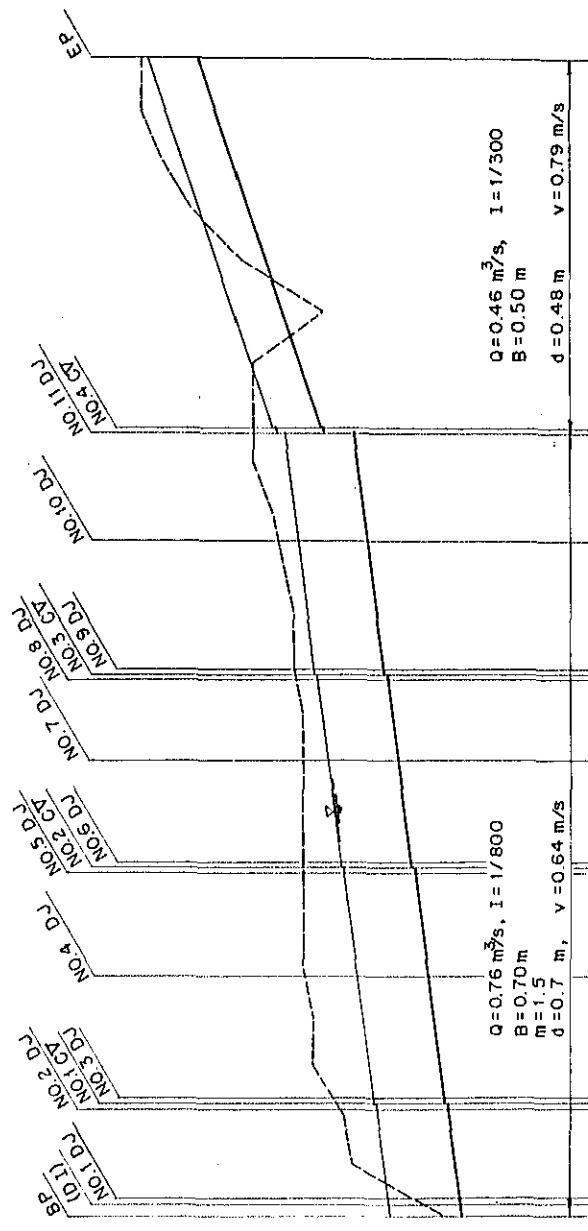
TITLE OF DRAWING
 PROFILE OF MAIN COLLECTOR
 DRAIN NO. 1

JAPAN INTERNATIONAL COOPERATION AGENCY
 DWG. NO. 509
 TOKYO - JAPAN



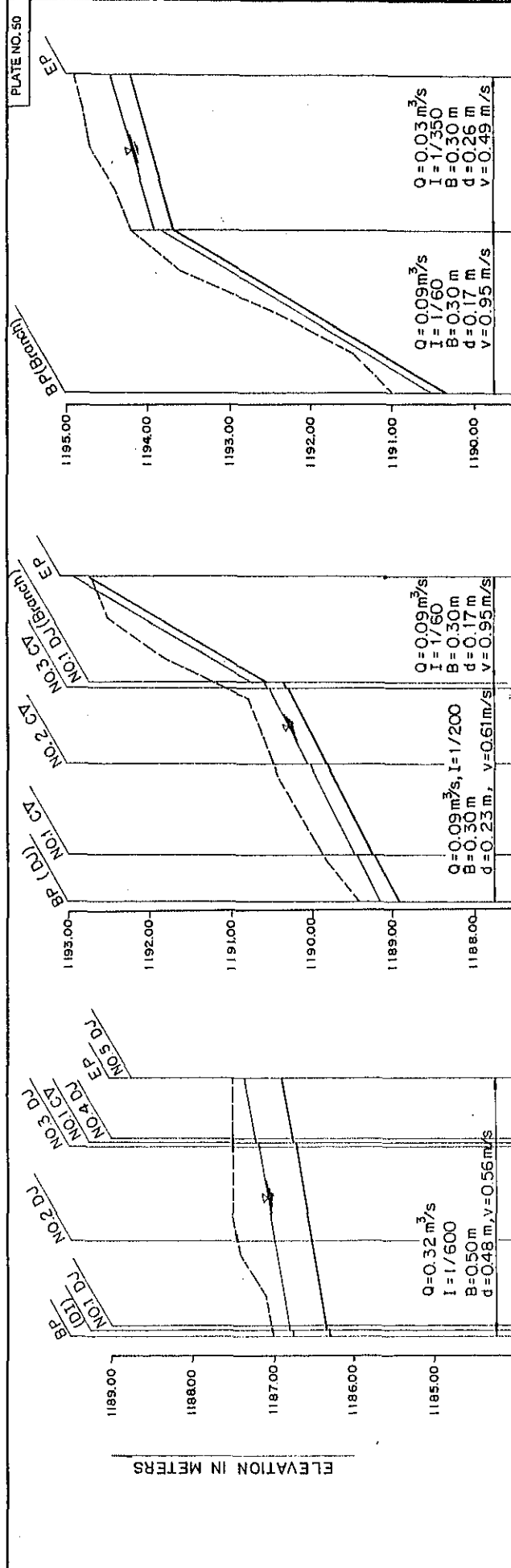
CURVE	EXISTING CONDITION			PROPOSED CONDITION		
	STATION NO.	REDUCED DISTANCE	DISTANCE	ORIGINAL GROUND SURFACE ELEVATION	WATER SURFACE ELEVATION	EMBANKMENT ELEVATION
BP	+20.0	0.0	0.0	1184.90	1184.90	1184.90
	+30.0	50.0	30.0	1185.50	1184.22	1184.22
	+40.0	100.0	50.0	1185.50	1184.22	1184.22
NO. 1	+50.0	150.0	50.0	1185.60	1184.29	1185.49
	+50.0	200.0	100.0	1185.70	1184.43	1185.93
NO. 2	+450.0	245.0	45.0	1185.90	1184.53	1185.73
	+50.0	300.0	55.0	1186.50	1184.61	1185.81
NO. 3	+50.0	350.0	50.0	1187.00	1184.68	1185.68
	+50.0	400.0	50.0	1188.20	1185.75	1187.95
NO. 4	+50.0	450.0	50.0	1189.40	1187.25	1188.45
	+50.0	500.0	50.0	1189.40	1187.25	1188.45
NO. 5	+50.0	550.0	50.0	1189.70	1187.38	1188.52
	+50.0	600.0	50.0	1189.70	1187.38	1188.52
NO. 6	+50.0	650.0	50.0	1189.70	1187.38	1188.52
	+50.0	700.0	50.0	1189.70	1187.38	1188.52
NO. 7	+50.0	750.0	50.0	1189.70	1187.38	1188.52
	+50.0	800.0	50.0	1189.70	1187.38	1188.52
NO. 8	+50.0	850.0	50.0	1189.70	1187.38	1188.52
	+50.0	900.0	50.0	1189.70	1187.38	1188.52
NO. 9	+50.0	950.0	50.0	1189.70	1187.38	1188.52
	+50.0	1000.0	50.0	1189.70	1187.38	1188.52
NO. 10	+50.0	1050.0	50.0	1189.70	1187.38	1188.52
	+50.0	1100.0	50.0	1189.70	1187.38	1188.52
NO. 11	+50.0	1150.0	50.0	1189.70	1187.38	1188.52
	+50.0	1200.0	50.0	1189.70	1187.38	1188.52
NO. 12	+50.0	1250.0	50.0	1189.70	1187.38	1188.52
	+50.0	1300.0	50.0	1189.70	1187.38	1188.52
NO. 13	+50.0	1350.0	50.0	1189.70	1187.38	1188.52
	+50.0	1400.0	50.0	1189.70	1187.38	1188.52
NO. 14	+50.0	1450.0	50.0	1189.70	1187.38	1188.52
	+50.0	1500.0	50.0	1189.70	1187.38	1188.52
NO. 15	+50.0	1550.0	50.0	1189.70	1187.38	1188.52
	+50.0	1600.0	50.0	1189.70	1187.38	1188.52
NO. 16	+50.0	1650.0	50.0	1189.70	1187.38	1188.52
	+50.0	1700.0	50.0	1189.70	1187.38	1188.52
NO. 17	+50.0	1750.0	50.0	1189.70	1187.38	1188.52
	+50.0	1800.0	50.0	1189.70	1187.38	1188.52
NO. 18	+50.0	1850.0	50.0	1189.70	1187.38	1188.52
	+50.0	1900.0	50.0	1189.70	1187.38	1188.52
NO. 19	+50.0	1950.0	50.0	1189.70	1187.38	1188.52
	+50.0	2000.0	50.0	1189.70	1187.38	1188.52
NO. 20	+50.0	2050.0	50.0	1189.70	1187.38	1188.52
	+50.0	2100.0	50.0	1189.70	1187.38	1188.52
NO. 21	+50.0	2150.0	50.0	1189.70	1187.38	1188.52
	+50.0	2200.0	50.0	1189.70	1187.38	1188.52
NO. 22	+50.0	2250.0	50.0	1189.70	1187.38	1188.52
	+50.0	2300.0	50.0	1189.70	1187.38	1188.52
NO. 23	+50.0	2350.0	50.0	1189.70	1187.38	1188.52
	+50.0	2400.0	50.0	1189.70	1187.38	1188.52
NO. 24	+50.0	2450.0	50.0	1189.70	1187.38	1188.52
	+50.0	2500.0	50.0	1189.70	1187.38	1188.52
NO. 25	+50.0	2550.0	50.0	1189.70	1187.38	1188.52
	+50.0	2600.0	50.0	1189.70	1187.38	1188.52
NO. 26	+50.0	2650.0	50.0	1189.70	1187.38	1188.52
	+50.0	2700.0	50.0	1189.70	1187.38	1188.52
NO. 27	+50.0	2750.0	50.0	1189.70	1187.38	1188.52
	+50.0	2800.0	50.0	1189.70	1187.38	1188.52
NO. 28	+50.0	2850.0	50.0	1189.70	1187.38	1188.52
	+50.0	2900.0	50.0	1189.70	1187.38	1188.52
NO. 29	+50.0	2950.0	50.0	1189.70	1187.38	1188.52
	+50.0	3000.0	50.0	1189.70	1187.38	1188.52
NO. 30	+50.0	3050.0	50.0	1189.70	1187.38	1188.52
	+50.0	3100.0	50.0	1189.70	1187.38	1188.52
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	+50.0	3200.0	50.0	1189.70	1187.38	1188.52
NO. 32	+50.0	3250.0	50.0	1189.70	1187.38	1188.52
	+50.0	3300.0	50.0	1189.70	1187.38	1188.52
NO. 33	+50.0	3350.0	50.0	1189.70	1187.38	1188.52
	+50.0	3400.0	50.0	1189.70	1187.38	1188.52
NO. 34	+50.0	3450.0	50.0	1189.70	1187.38	1188.52
	+50.0	3500.0	50.0	1189.70	1187.38	1188.52
NO. 35	+50.0	3550.0	50.0	1189.70	1187.38	1188.52
	+50.0	3600.0	50.0	1189.70	1187.38	1188.52
NO. 36	+50.0	3650.0	50.0	1189.70	1187.38	1188.52
	+50.0	3700.0	50.0	1189.70	1187.38	1188.52
NO. 37	+50.0	3750.0	50.0	1189.70	1187.38	1188.52
	+50.0	3800.0	50.0	1189.70	1187.38	1188.52
NO. 38	+50.0	3850.0	50.0	1189.70	1187.38	1188.52
	+50.0	3900.0	50.0	1189.70	1187.38	1188.52
NO. 39	+50.0	3950.0	50.0	1189.70	1187.38	1188.52
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	+50.0	4100.0	50.0	1189.70	1187.38	1188.52
NO. 41	+50.0	4150.0	50.0	1189.70	1187.38	1188.52
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NO. 42	+50.0	4250.0	50.0	1189.70	1187.38	1188.52
	+50.0	4300.0	50.0	1189.70	1187.38	1188.52
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NO. 44	+50.0	4450.0	50.0	1189.70	1187.38	1188.52
	+50.0	4500.0	50.0	1189.70	1187.38	1188.52
NO. 45	+50.0	4550.0	50.0	1189.70	1187.38	1188.52
	+50.0	4600.0	50.0	1189.70	1187.38	1188.52
NO. 46	+50.0	4650.0	50.0	1189.70	1187.38	1188.52
	+50.0	4700.0	50.0	1189.70	1187.38	1188.52
NO. 47	+50.0	4750.0	50.0	1189.70	1187.38	1188.52
	+50.0	4800.0	50.0	1189.70	1187.38	1188.52
NO. 48	+50.0	4850.0	50.0	1189.70	1187.38	1188.52
	+50.0	4900.0	50.0	1189.70	1187.38	1188.52
NO. 49	+50.0	4950.0	50.0	1189.70	1187.38	1188.52
	+50.0	5000.0	50.0	1189.70	1187.38	1188.52

REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF COLLECTOR DRAIN NO. 1
 JAPAN INTERNATIONAL COOPERATION AGENCY
 DWG. NO. 511
 TOKYO JAPAN



CURVE	EXISTING CONDITION			PROPOSED CONDITION		
	STATION NO.	REDUCED DISTANCE	DISTANCE	ORIGINAL GROUND SURFACE ELEVATION	CANAL BASE ELEVATION	WATER SURFACE ELEVATION
NO. 1	101+00	100	100	1187.90	1187.90	1187.90
NO. 2	102+00	2400	400	1188.40	1187.87	1187.81
NO. 3	103+00	3000	600	1188.40	1187.24	1187.94
NO. 4	104+00	4000	475	1188.40	1187.38	1188.08
NO. 5	105+00	5000	450	1188.40	1187.51	1188.21
NO. 6	106+00	6000	550	1188.50	1187.66	1188.36
NO. 7	107+00	7000	275	1188.70	1187.70	1188.46
NO. 8	108+00	8000	1500	1188.90	1188.90	1188.90
NO. 9	109+00	9000	1000	1188.20	1188.60	1189.08
NO. 10	11000	10000	1000	1189.00	1189.50	1189.41
NO. 11	11000	10000	1000	1189.00	1189.25	1189.74
NO. 12	11500	11500	500	1190.00	1189.44	1189.92

ELEVATION IN METERS

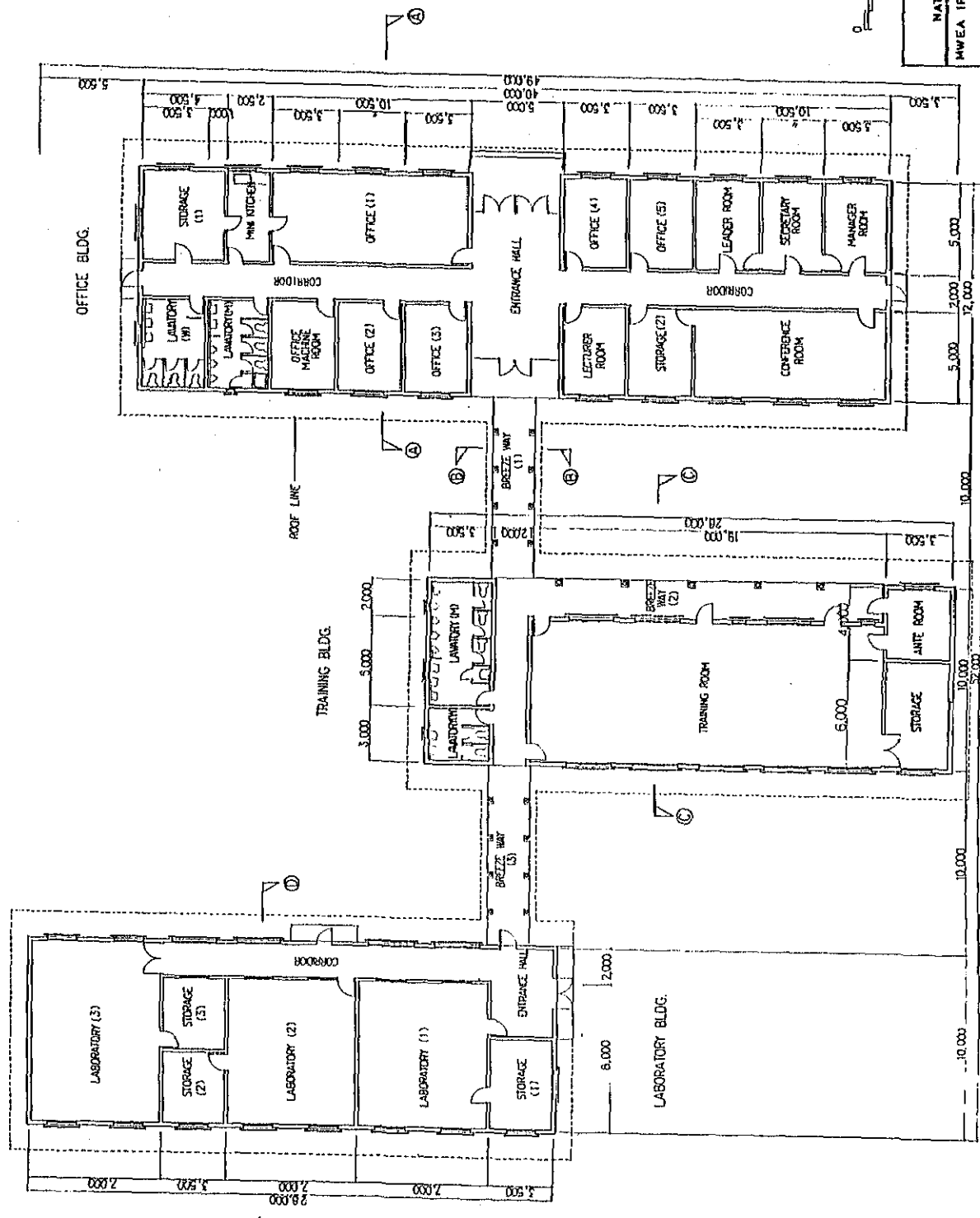


CURVE	STATION NO.	EXISTING CONDITION		PROPOSED CONDITION	
		DISTANCE	REDUCED DISTANCE	DISTANCE	REDUCED DISTANCE
BP	+500	0	12.00	0	12.00
NO. 1	+500	100.0	117.5	87.5	117.5
NO. 2	+500	200.0	82.5	1187.50	82.5
NO. 3	+500	300.0	55.0	1187.50	55.0
NO. 4	+500	400.0	100.0	1187.50	100.0
EP	+500	400.0	200.0	1186.87	1187.34

CURVE	STATION NO.	EXISTING CONDITION		PROPOSED CONDITION	
		DISTANCE	REDUCED DISTANCE	DISTANCE	REDUCED DISTANCE
BP	+500	57.5	57.5	1189.47	1189.47
NO. 1	+500	100.0	42.5	1189.10	1189.45
NO. 2	+500	170.0	70.0	1189.80	1190.03
NO. 3	+500	300.0	30.0	1190.50	1190.21
NO. 4	+500	400.0	100.0	1191.80	1191.80
EP	+500	400.0	300.0	1192.50	1192.90

CURVE	STATION NO.	EXISTING CONDITION		PROPOSED CONDITION	
		DISTANCE	REDUCED DISTANCE	DISTANCE	REDUCED DISTANCE
BP	0.0	0.0	0.0	1190.33	1190.50
NO. 1	+500	100.0	100.0	1192.50	1192.17
NO. 2	+500	200.0	100.0	1194.20	1193.92
NO. 3	+500	300.0	100.0	1194.70	1194.21
NO. 4	+500	100.0	100.0	1194.90	1194.48
EP	+500	100.0	100.0	1194.40	1194.20

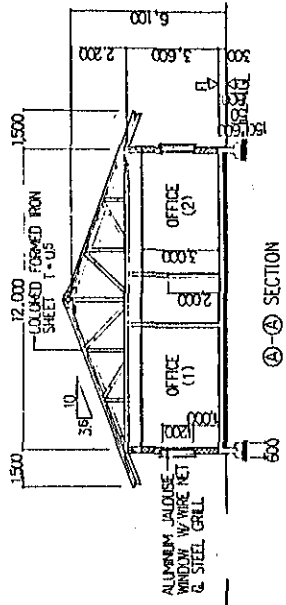
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 MWEA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE OF COLLECTOR DRAIN NO.2
 AND NO.3
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN
 SHEET NO. 512



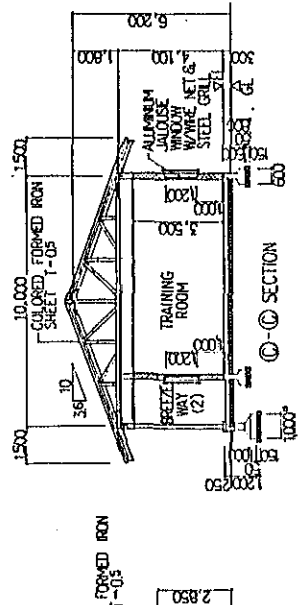
REPUBLIC OF KENYA
 NATIONAL IRRIGATION BOARD
 NHWA IRRIGATION SETTLEMENT SCHEME
 DEVELOPMENT PROJECT

TITLE OF DRAWING
 OFFICE/TRAINING/LABORATORY - PLAN

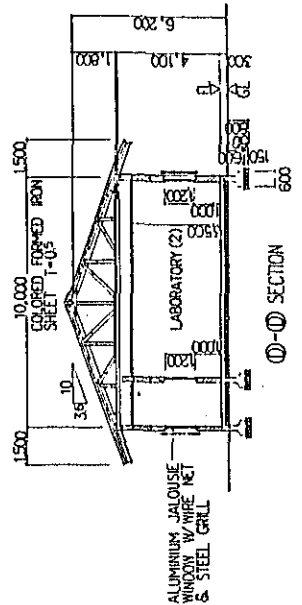
JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN
 DWG. NO. 602



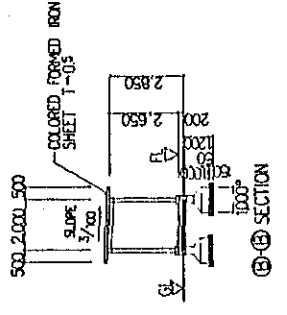
SECTION A-A



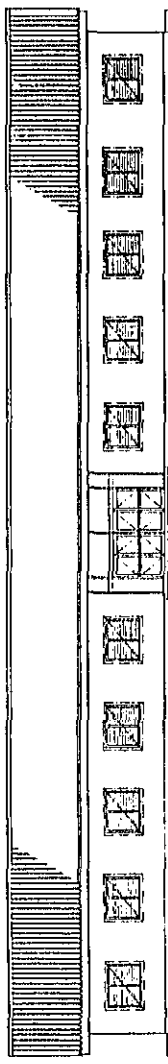
SECTION B-B



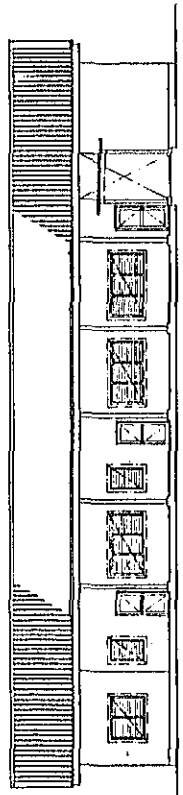
SECTION C-C



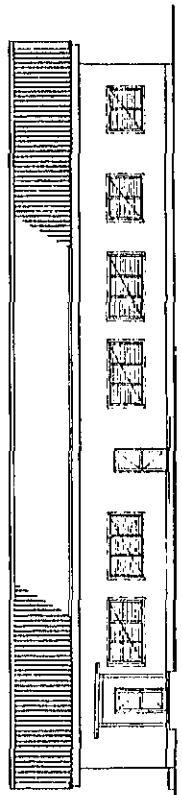
SECTION D-D



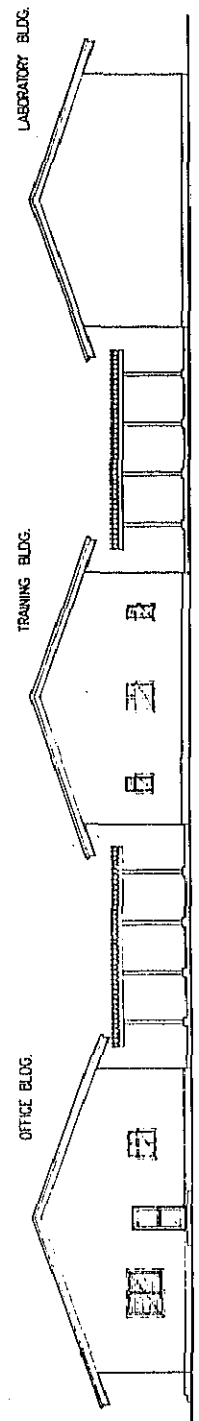
OFFICE BLDG. ELEVATION - B



TRAINING BLDG. ELEVATION - B



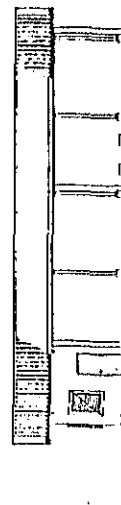
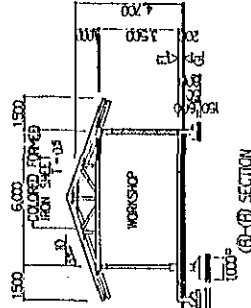
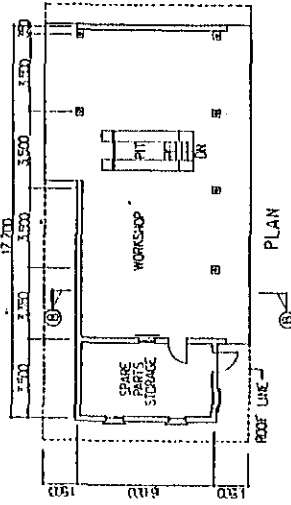
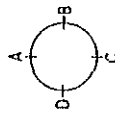
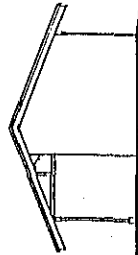
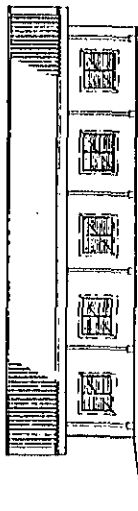
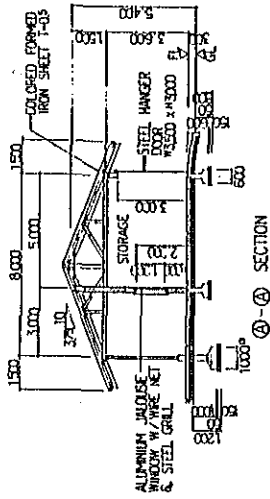
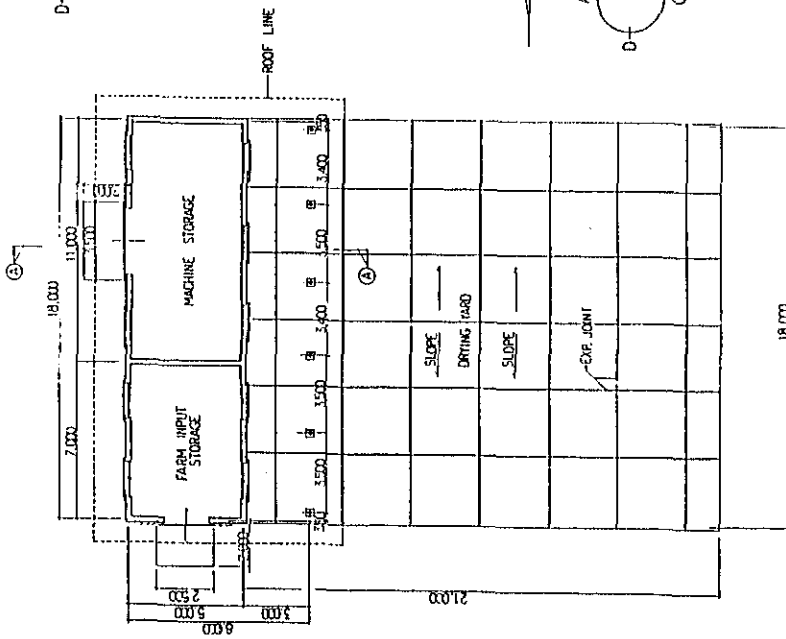
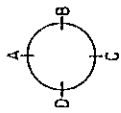
LABORATORY BLDG. ELEVATION - B



ELEVATION - A

LEGEND : [Symbol] STEEL GRILL

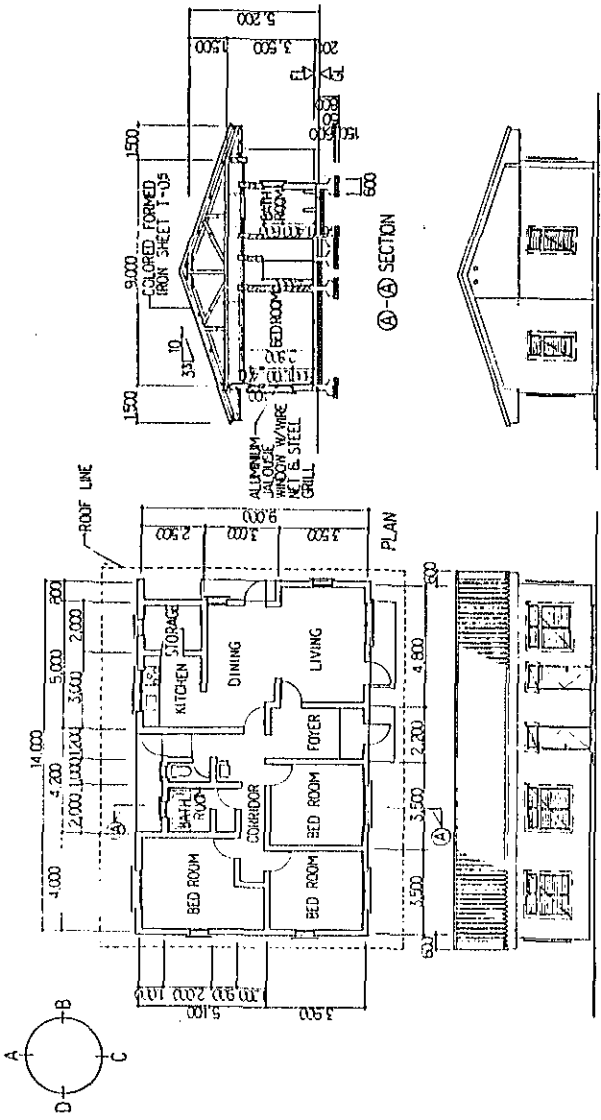
REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING
OFFICE/TRAINING/LABORATORY - ELEVATION/SECTION
JAPAN INTERNATIONAL COOPERATION AGENCY
Draw. No. TOKYO JAPAN 603



LEGEND : STEEL GRILL

REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING
MULTIPURPOSE STORAGE / WORKSHOP
- PLAN / ELEVATION / SECTION
JAPAN INTERNATIONAL COOPERATION AGENCY
TOBETO, JAPAN
DRAWING NO. 604

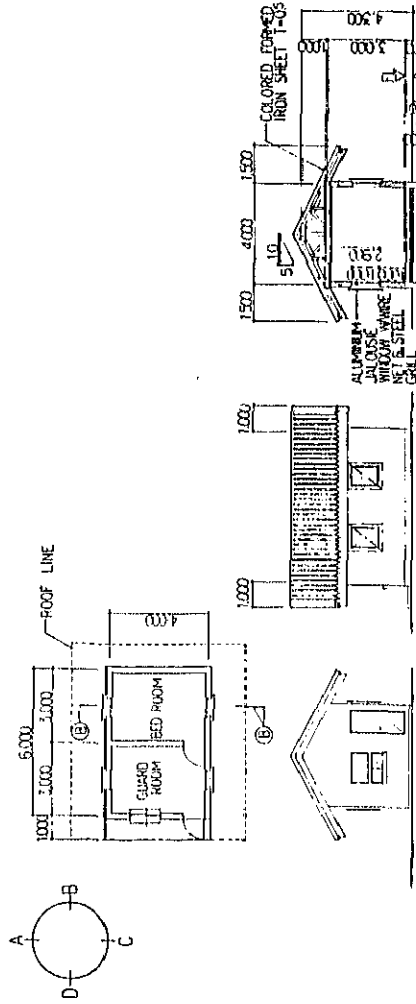
HOUSING



ELEVATION - C

ELEVATION - B

GUARD HOUSE



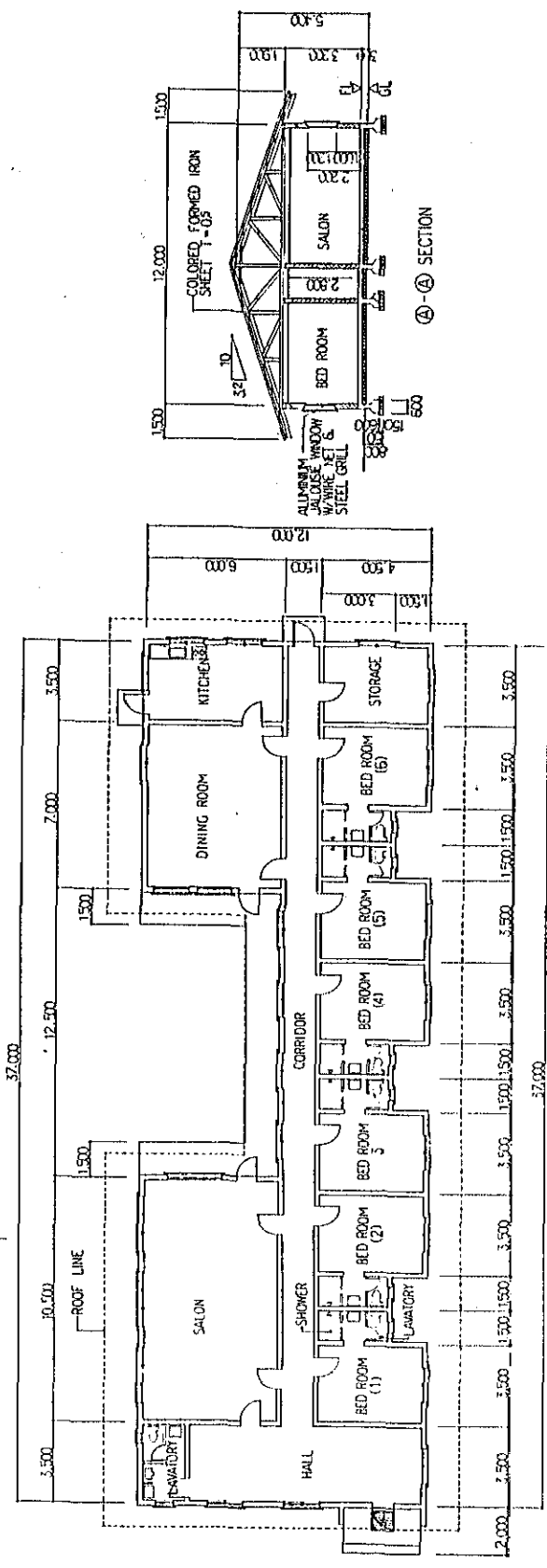
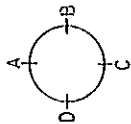
ELEVATION - C

ELEVATION - D

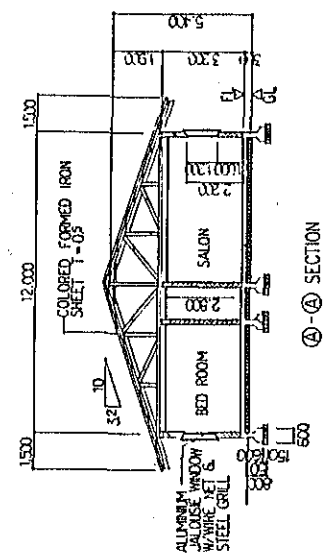
LEGEND: [Symbol] STEEL GRILL



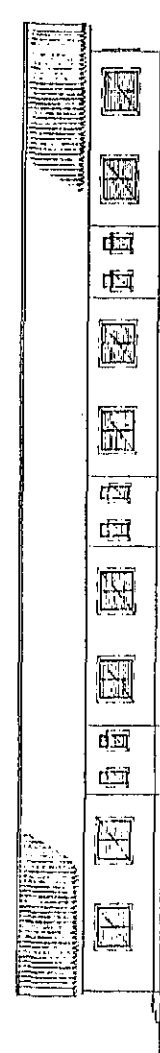
REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING HOUSING/GUARD HOUSE
- PLAN/ELEVATION/SECTION
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIV. NO. 605
TSUBO JAPAN



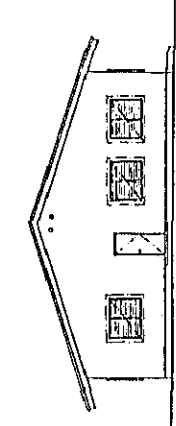
PLAN



SECTION A-A



ELEVATION - B

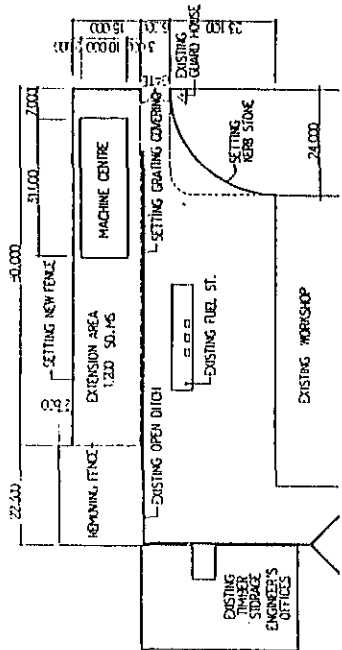


ELEVATION - C

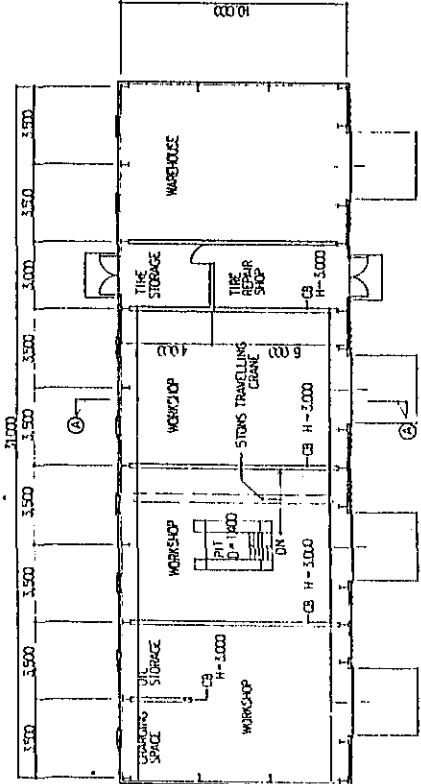
LEGEND [] STEEL GRILL



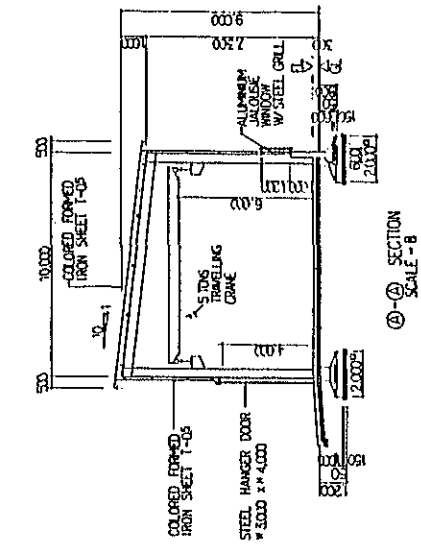
REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
NWEA IRRIGATION SETTLEMENT SCHEME
DEVELOPMENT PROJECT
TITLE OF DRAWING
GUEST HOUSE
- PLAN/ELEVATION/SECTION
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO - JAPAN
DWG. NO. 606



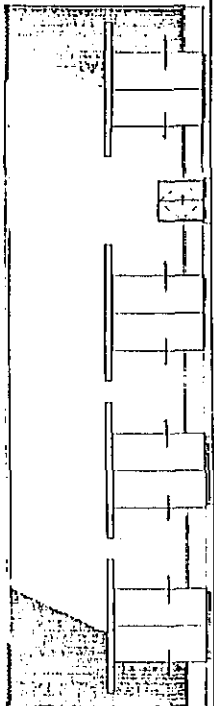
SITE PLAN
SCALE - A



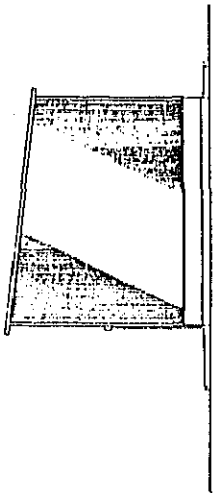
PLAN
SCALE - B



SECTION - B
SCALE - B



ELEVATION - C
SCALE - B



ELEVATION - B
SCALE - B

REMARK
CB : CONCRETE BLOCK
SCALE - A 0 10 20 30M
SCALE - B 0 10 20 30M

REPUBLIC OF KENYA
NATIONAL IRRIGATION BOARD
MWEA IRRIGATION SETTLEMENT SCHEME DEVELOPMENT PROJECT
TITLE OF DRAWING MACHINE CENTER
- SITE PLAN / PLAN / ELEVATION / SECTION
JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO. 607 TOKYO JAPAN

JICA